



Anand Nagar, Krishnankoil - 626126, Srivilliputtur (via), Virudhunagar District, Tamilnadu.

APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:17-10-2024

Department	COMPUTER SCIENCE AND ENGINEERING	Application No.	20240087
Area of Research	CYBER SECURITY	Research Mode	PART TIME

Name :MANI G
Date of Birth / Age :30-06-1976 / 48 Years
Gender :MALE
Category :BC
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Father's/Husband's Name	GOPALSAMY	Father's/Husband's Occupation	LATE
Family Income	20 LAKHS	Residential Type	RURAL
Birth Place	POLLACHI	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	MARRIED
Aadhaar No.	00000	PAN No.	AIZPG8960A
Physically Challenged	NO	Type of Disability	-
Address for Communication: 2 90 ELLUPPANAGARAM UDUMALPET TIRUPUR DISTRICT TAMILNADU INDIA Pin-642120		Permenant Address: 2/90 ILLUPPANAGARAM UDUMALPET TIRUPUR DISTRICT TAMILNADU INDIA Pin-642120	

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
MCA	COMPUTER APPLICATIONS	MANONMANIAM SUNDANESE UNIVERSITY	2003	65	1	CORRESPOND
MBA	FINANCE	BHARATHIAR UNIVERSITY	2009	60	1	DISTANCE
BSC	CHEMISTRY	BHARATHIAR UNIVERSITY	1997	67	1	REGULAR

Experience					
Organization	Designation	Experience From	Experience TO	Work Nature	
WIPRO	SENIOR SOFTWARE ENGINEER	2005-05-16	2009-08-31	SOFTWARE ENGINEER	
ACCENTURE	TEAM LEAD	2009-09-01	2016-03-11	SOFTWARE	
COOLSOFT	SENIOR QA ENGINEER	2016-10-03	2024-10-16		

Payment Details

Transaction ID	Reference	Date of transaction	Amount	Status
20240087_241021092508	ZHDFP9Y03ERAXQ	21-10-2024	600	SUCCESS

RESEARCH PAPER

TITLE : CYBERSECURITY & ARTIFICIAL INTELLIGENCE

Name : Mani Gopalsamy

COUNTRY : India

Synopsis :

Considering the breadth of AI-centric applications, this paper is narrowing its focus on the vulnerability, opportunity, and growth of AI in Cyber Security domain. The definition and motive of cyber security varies among diverse organizations and standards around the world. Incorporating cybersecurity is not to only secure the perimeters, but rather to identify the value of the assets under threat, localize the threat, and then prioritize the actions to build a defence-in-depth framework that ensures continuity of service.

EMERGING of AI IN CYBERSECURITY:

The paper focused on the border security perspective of the spectrum of threats ranging from internal to transnational attacks, and the interconnected nature of military, government, and civilian information systems, the emphasis on improved measures to cope with the constantly evolving technology is crucial for maintaining the relevance and effectiveness.

Probabilistic ontologies can improve this process by providing a framework for understanding the likelihood of certain events or behaviours, which is crucial for detecting potential security breaches or attacks. AI technologies become much more proactive and efficient, the adversarial AI started to evade detection or generate sophisticated attacks.

PROSPECTS AND PROGRESSIONS

AI techniques across various applications holds tremendous potential for addressing numerous socio-economic and environmental challenges. AI has made remarkable notes in im-proving cybersecurity applications through its contributions to threat detection, response, and prevention. Anomaly Detection the pattern recognition of the attack vectors through these models helps the security personnel to make efficient decisions in a timely manner.

Cloud Security and Encryption is a framework enables a digital twin system with a virtual representation of Industrial IoT-based big data management and combines reinforcement techniques and federated learning to strengthen cloud security.

Incident Reaction & Mitigation the detection and security monitoring techniques assist in identifying the adverse events, the subsequent actions require the analysis of the encountered threat and responding to the vulnerability.

Threat Intelligence & Deception Technology considered more proactive methods, modern security management systems of-ten allows vulnerable spots within specific parts of the infrastructure or tracking mechanisms within the system to capture the behaviour or data flow from cybercriminals.

The ability of AI in such an environment with a large volume of unstructured data improves the accuracy of threat detection, reduces manual interventions, and exemplifies the prospect of AI in preventing sophisticated cyber-attacks.

CONFRONTS IN FULFILLING AI

Knowledge about those threat and vulnerabilities are also essential to maintain the adaptive and proactive defence mechanism to fight against the notorious portion of AI application to raise security concerns.

THREATS AND VULNERABILITIES

The legitimate purpose of AI in such a way is often diverted by cybercriminals to gain personal benefits. Advanced phishing attacks, automated hacking, sophisticated fraud, and manipulations are prime examples of AI targeted attacks with the help of AI. AI technology to reshape the cyber security methods to tackle modern, complex, and sophisticated attacks, the following limitations need to be addressed properly, and more research is indeed essential for improvements.

Potential Misuse of Artificial Intelligence

The increasing accessibility of AI tools and techniques means that the barrier to entry for cybercriminals is lowering, leading to more advanced and targeted cyber-attacks. AI can be exploited to create sophisticated malware that adapts to security defences, automate large-scale phishing campaigns.

FUTURE DIRECTIONS

The future of cybersecurity lies in the ability to anticipate, adapt, and respond to these challenges effectively. Artificial Intelligence (XAI) plays a crucial role in the future direction of AI in cybersecurity. It addresses the challenge of the "black box" nature of deep learning models, aiming to make AI's decision-making transparent and under-standable.

CONCLUSION

The strength of AI can be maintained by the evolving cyber-attacks if the evolution of AI can be run at the same rate as the attacks. The possibility of integrating other technologies into the AI-integrated security applications, the threat actors can be defended effectively, or at least the impact can be minimized. AI in cybersecurity is transforming the workforce, steering it towards more intellectually demanding roles in this situation.

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அறிவியற் புலம்
FACULTY OF SCIENCE

மனோன்மணியம் சுந்தரனார் பல்கலைக்கழக ஆட்சிக்குழு

மணி கோ

கணினிப் பயன்பாட்டியலில் நிறைஞர்

பட்டம் பெறுதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற தேர்வினோர் சான்றளித்தவாறு மே 2003 இல் நடத்திய தேர்வுகளில் சான்றளித்தபடி, அன்னவர் முதல் வகுப்புப்பெற்று இந்தப் பட்டப்பேற்றுக்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக முத்திரையுடன் இது வழங்கப்படுகின்றது.

The Syndicate of the MANONMANIAM SUNDARANAR UNIVERSITY hereby makes known that MANI G has been admitted to the Degree of

MASTER OF COMPUTER APPLICATIONS

he/she having been certified by duly appointed Examiners to be qualified to receive the same at the Examination held in MAY 2003 and having been placed in the FIRST CLASS



Given under the seal of the University.

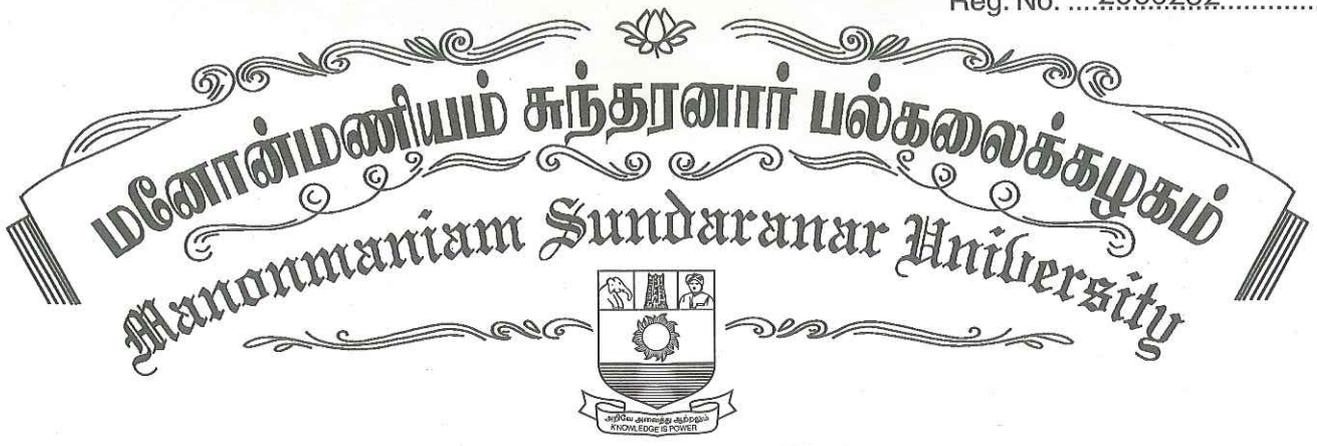
பதிவாளர்
Registrar

துணை வேந்தர்
Vice-Chancellor

திருநெல்வேலி, இந்தியா

Tirunelveli, India

நாள், Dated 1 SEP 2005



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Summary:

Mani is a Senior Automation Testing Professional with extensive experience and exceptional knowledge in utilizing **UFT** and the **UFT** Object Model for automated testing. He has demonstrated a strong understanding of browser DOM/POM and expertise in Windows application automation, particularly with **SAP** GUI. He is very proficient in leveraging tools like JIRA, Confluence, and ALM for effective project management and collaboration and familiar with a wide range of software automation tools and testing methodologies, committed to ensuring quality and efficiency in software development processes. He has extensive experience working with **state clients** such as **CalSTRS, Department of Conservation, CalPERS** and more.

Key Highlights:

- Over 18 years of experience in software development and testing, with specializing in Software Quality Assurance Testing, proficient in testing on Client/Server and Web based applications.
- Over 10 Years of QA Testing experience in Health Care and Pension system in State of California projects; Salesforce, PeopleSoft, and Siebel Testing.
- Hands on Experience in the development of Data driven, Keyword driven and Hybrid automation frameworks (**UFT**), and Tricentis **TOSCA** for Module scanning, and test case design.
- Expertise in design and implementation of Automation Test Frameworks using tools like HP QTP, HP **UFT**, **HP ALM**.
- Expertise in QA Methodologies, Test Strategies, Test Metrics in Manual, Automation Testing.
- Extensive working experience on all phases of Software Development Life Cycle (SDLC) and Software Test Lifecycles (STLC), its methodologies such as **Agile**, **SCRUM** and **Waterfall** Model.
- Professional expertise in Smoke Testing, Black-Box Testing, User Acceptance Testing (UAT), Functional Testing, System Testing, Exploratory, Postproduction validation, Regression Testing, GUI Software Testing, Web services, Boundary Value Testing.
- Extensive experience in reviewing and analyzing Business Requirements and creating Test Plans, Test Cases, Test Scripts, Test Estimation & Requirement Traceability Matrix (RTM).
- Experienced in Non-functional testing like Role based security testing.
- Good working experience on SOAP UI for testing and validating various web services used in the application.
- Trained in various test approaches including risk-based, model-based & dynamic testing
- Good knowledge in working with version control systems like GIT and used Source code management client tools like GitHub.
- Extensive experience with many of the leading tools for **Agile** planning such **HP ALM**, JIRA, qTest, MTM-TFS, Test Grid.

- Experienced in a large spectrum of industries including Health Care, Pension, Retirement system, Gas, Mortgage, Telecom.

EDUCATION/TRAINING/CERTIFICATION

Education:

- Master of Computer Applications (MCA), Manonmaniam Sundaranar University, Tamil Nadu, India 2003
- Master of Business Administration, Bharathiar University, TamilNadu, India 2009
- Bachelor of Science, Bharathiar University, Tamil Nadu, India 1997

Certifications:

- ITIL V3 Foundation
- Sun SCJP - Java Programmer
- ISTQB

TECHNICAL ENVIRONMENT

Testing & Defect Tracking Tools:	QC, ALM, Mercury TestDirector, Jira, Bugzilla, JAMA, VersionOne TOAD, TestDirector, QTP, CitiCMT/Actimize,. LoadRunner, Selenium WedDriver, TestNG,
Programming Languages:	VB, .NET, SQL, PL/SQL, HTML
RDBMS:	Oracle, MS Access, SQL Serve
Operating Systems:	Windows, UNIX, Linux,
MS Office:	MS Word, MS Excel, PowerPoint, SharePoint

MAJOR ASSIGNMENTS

Client: [State of California, CA](#)

Mar 2019 - Present

Role: [Test Lead/Cyber Security](#)

Responsibilities:

- Developed various business functions and generic functions in Robot framework to reduce redundant scripting for Automation.
- As a Senior Software QA Tester with full system development lifecycle experience, including developing, and implementing test plans, test cases, and execute in system testing environment.
- As a Test Lead/Coordinator with full system development lifecycle experience, made decisions for the quality assurance of the project / application and update to client management team for the weekly status report.

- Implemented advanced **UFT** automation techniques, utilizing POM to streamline the creation of reusable test components.
- Maintained the Architecture/Framework Keyword Driven using HP **UFT** and **HP ALM**.
- Involved in Authoring QA documents, including test plans, test strategy, test cases development, and test execution.
- Developed, Reviewed, and executed Test Cases from Business Requirements and Use Cases in JAMA.
- Implemented data-driven and keyword-driven testing methodologies in **UFT**, using the **UFT** Object Model for dynamic test execution.
- Involved in BI Reports testing for the operational reports in System Testing environment
- Worked in JIRA with my team to manage our team backlog and plan increments and sprints.
- Collaborated with developers to align **UFT** test scripts with application changes, ensuring seamless DOM interaction.
- Worked closely with the technical team and vendors to have the correct interface data files uploaded to the correct location to support testing activities.
- Developed comprehensive automation frameworks using **UFT** for testing **SAP** GUI applications, ensuring robust and reusable test scripts.
- Worked closely with the vendors and the technical team to get the environment ready for Interface Testing.
- Coordinated to review Test results and log defect defects in ALM.
- Worked closely with BA for Functional and technical documents analysis, defect analysis and CR scope.
- Managed cross-browser and cross-platform testing initiatives using **Selenium**, ensuring seamless user experiences across various environments.
- Performed Test effort estimation for various activities.
- Maintained test documents, project documents, and operations in Confluence repository.
- Responsible in Test Case Peer Review to ensure test cases are appropriately translated, test steps are detailed with coverage and mapped to the requirements.
- Involved in application analysis, test strategy development, test case creation, test script development, test execution, defect tracking and reporting.
- Developed test cases, provided support and guidance to users performing the tests, and worked as a bridge between users and development teams on defects and usability issues.
- Responsible for leading a team of test engineers in the development, implementation, and execution of software testing and quality assurance processes.
- Responsible for developing test strategy documents, worked with internal customers, and software development teams to define requirements, created test plans, execute the test plans and track and manage defects.
- Reviewed all test completion reports and approve the General Availability of all releases.
- Played as Technical Lead/Coordinator for the System Testing Team and was responsible for conducting a highly successful User Acceptance Test.

- Performed Regression Testing, End to End Testing, and Interface Testing to make sure existing functionalities are not broken due to new enhancements.
- Run SQL queries to validate data integration part of database testing.
- Managed Requirements in JAMA (RTM) for requirement mapping to cover test cases coverage

Environment: JAMA Test Management Tool, UFT, JIRA, Oracle DB, HP ALM, Confluence, NeoSpin, Mainframe, DBS, ESS

Client: State of California, CA

Jan 2018 – Feb 2019

Role: QA Consultant

Responsibilities:

- Developed, and implemented test plans, test cases, and execute in system testing environment.
- Involved in Authoring QA documents, including test plans, test strategy, test cases development, and test execution.
- Analyzed test specifications and converted them into Manual test cases.
- Run SQL queries to validate data integration part of database testing.
- Involved in Test Case Peer Review to ensure test cases are appropriately translated and mapped to the requirements in UAT.
- Validated SSRS Reports per requirement and create defects for correcting the issues.
- Executed Manual (TFS) and automated test scripts in System Test environment.
- Transferred all the test scripts, libraries into GitHub every month as part of backup plan.
- Used Test Team Foundation Server (TFS) to document functional and non-functional requirements, design specifications, test cases and defects, and provide full traceability for projects.
- Performed Regression Testing, End to End Testing, and Interface Testing to make sure existing functionalities are not broken due to new enhancements.
- Run SQL queries to validate data integration part of database testing.
- Produced business analysis and testing deliverables such as:
 - Business requirements and business rules
 - Functional requirements and/or functional specifications
 - Non-functional requirements
 - Stakeholder requests
 - Test strategies
 - Test plans
 - Test cases
 - Transition plans
 - Traceability matrices

- Involved in Test Case Peer Review to ensure test cases are appropriately translated and mapped to the requirements.

Environment: JIRA, Confluence, MTM-TFS, SQL Server, SOAP UI, UFT, Putty, SSRS, GitHub

Client: State of California, CA

Oct 2016 – Dec 2017

Role: QA Consultant

Responsibilities:

- Involved in Development and Maintenance of test automation framework using VBScript
- Involved and represented in Sprint Planning, Sprint Retrospective, Sprint Review, Backlog grooming, daily Scrum meetings and provide status update
- Developed various business functions and generic functions in VBScript to reduce redundant scripting
- Involved in user acceptance testing support to ensure the highest quality product was released to production
- Analyzed test specifications and converted them into Manual test cases
- Run SQL queries to validate data integration part of database testing
- Involved in Test Case Peer Review to ensure test cases are appropriately translated and mapped to the requirements in UAT
- Managed Requirements in ALM (RTM) for requirement mapping to cover test cases coverage
- Responsible for PeopleSoft Validation (by triggering batch jobs, online transaction) for the financial transactions between MyCalPERs and Financial system for the payroll posting, and Receivables creation.

Environment: ALM, JIRA, Oracle DB, UFT, GitHub, SQL, UAT

Client: State of Maine, Augusta, ME

Mar 2016 – Sep 2016

Role: Test Lead/Principal Consultant

Responsibilities:

- Developed Test conditions and Test cases upon reviewing Business Requirements in JIRA Environment
- Executed test cases to submit for Eligibility for the programs like Maine Care, Child Care, FS, TANF and Med Needy in ACES Application
- Produced business analysis and testing deliverables such as:
 - Business requirements and business rules
 - Functional requirements and/or functional specifications
 - Non-functional requirements

- Test strategies
- Test plans
- Test cases
- Traceability matrices.
- Involved in Logging defects in JIRA and retest after defect moved to Test ownership.
- Worked on Data preload (Production version) validation between ACES data base and Siebel System for the new enhancements.
- Developed and executed regression test cases in **UFT** environment part of Automated regression testing.
- Performed Automated build validation for the end-to-end scenarios prior to upgrade into System Testing environment.
- Submitted for household eligibility via SOAPUI (in the form of XML) from federally facilitated marketplace and MMC system and validate in database and Siebel for the correctness of data.
- Developed and executed test cases in **Agile** environment for Siebel Phase 2 enhancements.

Environment: JIRA, UFT, ALM 11.0, Confluence, SOAP UI, Oracle DB

Client: [State of California, CA](#)

Role: [Test Lead](#)

Nov 2012 – Mar 2016

Responsibilities:

- Responsible for directing a team of 12 resources (Offshore and onshore with accountability for the testing of government-interfaced web applications, the optimization and automation of QA processes, and the transition of QA to **Agile** software practices.
- As a Test Lead with full system development lifecycle experience, including designing, developing, and implementing test plans, test cases and test processes fueling swift corrective actions.
- Managed ALM Requirements and Defect Management tool for test execution, Requirements Mapping, and Defect Management
- Developed, Reviewed, and executed Test Cases from Business Requirements and Use Cases in **HP ALM**.
- Used Test Application Lifecycle Management tools such as **HP ALM** to document functional and non-functional requirements, design specifications, test cases and defects, and provide full traceability for projects
- Developed test cases, provided support and guidance to users performing the tests, and worked as a bridge between users and development teams on defects and usability issues.

- Coordinated with environment support team for the data refresh from higher environments (Production data after data masking) to lower environments (System testing environments) every 3 months or whenever data refresh required
- Coordinated for Build Validation after data refresh is completed and making sure basic functionalities working fine without any errors
- Run test scripts for the individual's eligibility for Medi-Cal (MEGI, Non-MEGI), QHP and APTC
- Worked with SAWS, LRS team to validate Non MAGI Medi-Cal cases initiated from SAWS and interact with MEDS for application processes for the integration testing.
- Initiated Eligibility through CALHEERS Portal and validate SCI Mock for the matching input values.
- Validated 834 carrier transaction between CALHEERS system and external carriers.
- To Support UAT team for the data setup and test cases execution.
- Coordinated with UAT team and System Testing team for the environments sharing (Notices and IRS testing shared same environment by both ST and UAT team).

Environment: QTP, ALM 11.0, SOAP UI, Oracle DB, Autosys, Putty, Integrated Eligibility System

Client: FannieMae, Washington DC

Mar 2011 – Oct 2012

Role: Test Lead

Responsibilities:

- Develop, Review, and execution of Test Cases from Business Requirements and Use Cases in **HP ALM**
- Using Test Application Lifecycle Management tools such as **HP ALM** to document functional and non-functional requirements, design specifications, test cases and defects, and provide full traceability for projects
- Leading and working within cross-functional teams that include business subject matter experts, application architects, developers, and testers
- Experience preparing test plans, test cases and document test results
- Conduct Defect triage meetings to triage the day to day defects from various testing activities
- To support the UAT, take lead in effectively managing the integration testing activities with participant integration
- Execute automated regression test scripts to test previously existing features of the applications in QTP environment
- Perform L2 Production Support and escalate to developers for the critical issues
- Resolve issues within SLA timeline and keep environment up all the time
- Coordinate with development team for defect fixes and participate in defect triage meetings

- Validate trade message service using TIBCO JMS for the STAMPS Trade Entry system; validate data integration between upstream and downstream systems as part of integration/interface testing

Environment: ALM, QTP, Oracle DB, Java, Java Script, Clear Case, WebLogic Server, PUTTY

Client: AT&T, Bangalore, India

Sept 2009 – Feb 2011

Role: Senior Software Engineer

Responsibilities:

- Responsible for resolving the Issues come from Production and QA Testing
- Validate billing for the Leasing site and customer information in BI reports
- Generate reports and validate each field in BI Reports
- Write test cases for each billing generation for lease site and customer information
- Involved in code optimizations and refactoring
- Participate in application analysis, test case creation, test script development, test execution, defect tracking and reporting (Customer billing and lease site)
- Involved in L3 Production Support
- Run Manual Build Validation for the high level critical scenarios and publish results to stake holders

Environment: HP Quality Center, Oracle DB, PUTTY, Windows

Client: Nortel Networks, Bangalore, India

May 2005 – Aug 2009

Role: Application Developer/Tester

Responsibilities:

- Production support & Development
- Involved in High-Level, Low-Level Design phase development
- Interacted with customer in North America and British Telecom (BT) in UK for day to day activities and updates as part of Onsite coordinator role in Belleville, ON – Canada
- Owned and contributed in Documentation for first draft version of development activities.
- Involved in analyzing defects and finding appropriate fixes in the maintenance release
- Interacted with Customer for new Features like GUI introduction to all phones with optimized images for approval.
- Involved in different phases for development and releases concurrently for customer patches
- Involved in server-side development with Servlets and Developed GUI based forms Understanding client's requirements and working on enhancements

- Significant Contribution to the Development of product, Active participation in Development, Improvement / Enhancement

Environment: HP Quality Center, Java, JSP, Servlets, Posgres DB, Unix, Clear Case, Apache Tomcat, Scrum

ACCOMPLISHMENTS

Following paper(s) published

- Novel Multiple Access Protocols Against Q-Learning-Based Tunnel Monitoring Using Flying Ad Hoc Networks
- Identification and classification of phishing emails based on Machine learning techniques to improve Cybersecurity
- Predictive Cyber Attack Detection in Cloud Environments with Machine Learning from the CICIDS 2018 Dataset

आयकर विभाग
INCOME TAX DEPARTMENT



भारत सरकार
GOVT. OF INDIA

MANI
GOPALASAMY

30/06/1976
Permanent Account Number

AIZPG8960A



Mani
Signature

In case this card is lost / found, kindly inform / return to :

Income Tax PAN Services Unit, UTIISL
Plot No. 3, Sector 11, CBD Belapur,
Navi Mumbai - 400 614.

यह कार्ड खो जाने पर कृपया सूचित करें/लौटायें :
आयकर पैन सेवा यूनिट, UTIISL
प्लॉट नं: ३, सेक्टर ११, सी.बी.डी.बेलापुर,
नवी मुंबई-४०० ६१४.

California ^{USA} DRIVER LICENSE



DL **F8176392**
EXP **06/30/2029**

CLASS C
LIMITED-TERM
END NONE

LN **GOPALSAMY**
FN **MANI**
3749 THERMIAC GULF WAY
SACRAMENTO, CA 95834

DOB **06/30/1976**
RSTR NONE

06301976



Mani

SEX: M HAIR: BLK EYES: BLK
HGT: 5'-07" WGT: 149 lb *** ISS: 04/15/2024
DD 04/15/202450109/CCFD/29

CLASS: C - Veh w/GVWR ≤26000, No MC
ENDORSEMENTS: None
RESTRICTIONS: None

This license is issued as a license to drive a motor vehicle; it does not establish eligibility for employment, voter registration, or public benefits.

063076

Rev 08/29/2017
24106F8176392*

Summary:

Mani is a Senior Automation Testing Professional with extensive experience and exceptional knowledge in utilizing **UFT** and the **UFT** Object Model for automated testing. He has demonstrated a strong understanding of browser DOM/POM and expertise in Windows application automation, particularly with **SAP** GUI. He is very proficient in leveraging tools like JIRA, Confluence, and ALM for effective project management and collaboration and familiar with a wide range of software automation tools and testing methodologies, committed to ensuring quality and efficiency in software development processes. He has extensive experience working with **state clients** such as **CalSTRS, Department of Conservation, CalPERS** and more.

Key Highlights:

- Over 18 years of experience in software development and testing, with specializing in Software Quality Assurance Testing, proficient in testing on Client/Server and Web based applications.
- Over 10 Years of QA Testing experience in Health Care and Pension system in State of California projects; Salesforce, PeopleSoft, and Siebel Testing.
- Hands on Experience in the development of Data driven, Keyword driven and Hybrid automation frameworks (**UFT**), and Tricentis **TOSCA** for Module scanning, and test case design.
- Expertise in design and implementation of Automation Test Frameworks using tools like HP QTP, HP **UFT**, **HP ALM**.
- Expertise in QA Methodologies, Test Strategies, Test Metrics in Manual, Automation Testing.
- Extensive working experience on all phases of Software Development Life Cycle (SDLC) and Software Test Lifecycles (STLC), its methodologies such as **Agile**, **SCRUM** and **Waterfall** Model.
- Professional expertise in Smoke Testing, Black-Box Testing, User Acceptance Testing (UAT), Functional Testing, System Testing, Exploratory, Postproduction validation, Regression Testing, GUI Software Testing, Web services, Boundary Value Testing.
- Extensive experience in reviewing and analyzing Business Requirements and creating Test Plans, Test Cases, Test Scripts, Test Estimation & Requirement Traceability Matrix (RTM).
- Experienced in Non-functional testing like Role based security testing.
- Good working experience on SOAP UI for testing and validating various web services used in the application.
- Trained in various test approaches including risk-based, model-based & dynamic testing
- Good knowledge in working with version control systems like GIT and used Source code management client tools like GitHub.
- Extensive experience with many of the leading tools for **Agile** planning such **HP ALM**, JIRA, qTest, MTM-TFS, Test Grid.

- Experienced in a large spectrum of industries including Health Care, Pension, Retirement system, Gas, Mortgage, Telecom.

EDUCATION/TRAINING/CERTIFICATION

Education:

- Master of Computer Applications (MCA), Manonmaniam Sundaranar University, Tamil Nadu, India 2003
- Master of Business Administration, Bharathiar University, TamilNadu, India 2009
- Bachelor of Science, Bharathiar University, Tamil Nadu, India 1997

Certifications:

- ITIL V3 Foundation
- Sun SCJP - Java Programmer
- ISTQB

TECHNICAL ENVIRONMENT

Testing & Defect Tracking Tools:	QC, ALM, Mercury TestDirector, Jira, Bugzilla, JAMA, VersionOne TOAD, TestDirector, QTP, CitiCMT/Actimize,. LoadRunner, Selenium WedDriver, TestNG,
Programming Languages:	VB, .NET, SQL, PL/SQL, HTML
RDBMS:	Oracle, MS Access, SQL Serve
Operating Systems:	Windows, UNIX, Linux,
MS Office:	MS Word, MS Excel, PowerPoint, SharePoint

MAJOR ASSIGNMENTS

Client: [State of California, CA](#)

Mar 2019 - Present

Role: [Test Lead/Cyber Security](#)

Responsibilities:

- Developed various business functions and generic functions in Robot framework to reduce redundant scripting for Automation.
- As a Senior Software QA Tester with full system development lifecycle experience, including developing, and implementing test plans, test cases, and execute in system testing environment.
- As a Test Lead/Coordinator with full system development lifecycle experience, made decisions for the quality assurance of the project / application and update to client management team for the weekly status report.

- Implemented advanced **UFT** automation techniques, utilizing POM to streamline the creation of reusable test components.
- Maintained the Architecture/Framework Keyword Driven using HP **UFT** and **HP ALM**.
- Involved in Authoring QA documents, including test plans, test strategy, test cases development, and test execution.
- Developed, Reviewed, and executed Test Cases from Business Requirements and Use Cases in JAMA.
- Implemented data-driven and keyword-driven testing methodologies in **UFT**, using the **UFT** Object Model for dynamic test execution.
- Involved in BI Reports testing for the operational reports in System Testing environment
- Worked in JIRA with my team to manage our team backlog and plan increments and sprints.
- Collaborated with developers to align **UFT** test scripts with application changes, ensuring seamless DOM interaction.
- Worked closely with the technical team and vendors to have the correct interface data files uploaded to the correct location to support testing activities.
- Developed comprehensive automation frameworks using **UFT** for testing **SAP** GUI applications, ensuring robust and reusable test scripts.
- Worked closely with the vendors and the technical team to get the environment ready for Interface Testing.
- Coordinated to review Test results and log defect defects in ALM.
- Worked closely with BA for Functional and technical documents analysis, defect analysis and CR scope.
- Managed cross-browser and cross-platform testing initiatives using **Selenium**, ensuring seamless user experiences across various environments.
- Performed Test effort estimation for various activities.
- Maintained test documents, project documents, and operations in Confluence repository.
- Responsible in Test Case Peer Review to ensure test cases are appropriately translated, test steps are detailed with coverage and mapped to the requirements.
- Involved in application analysis, test strategy development, test case creation, test script development, test execution, defect tracking and reporting.
- Developed test cases, provided support and guidance to users performing the tests, and worked as a bridge between users and development teams on defects and usability issues.
- Responsible for leading a team of test engineers in the development, implementation, and execution of software testing and quality assurance processes.
- Responsible for developing test strategy documents, worked with internal customers, and software development teams to define requirements, created test plans, execute the test plans and track and manage defects.
- Reviewed all test completion reports and approve the General Availability of all releases.
- Played as Technical Lead/Coordinator for the System Testing Team and was responsible for conducting a highly successful User Acceptance Test.

- Performed Regression Testing, End to End Testing, and Interface Testing to make sure existing functionalities are not broken due to new enhancements.
- Run SQL queries to validate data integration part of database testing.
- Managed Requirements in JAMA (RTM) for requirement mapping to cover test cases coverage

Environment: JAMA Test Management Tool, UFT, JIRA, Oracle DB, HP ALM, Confluence, NeoSpin, Mainframe, DBS, ESS

Client: State of California, CA

Jan 2018 – Feb 2019

Role: QA Consultant

Responsibilities:

- Developed, and implemented test plans, test cases, and execute in system testing environment.
- Involved in Authoring QA documents, including test plans, test strategy, test cases development, and test execution.
- Analyzed test specifications and converted them into Manual test cases.
- Run SQL queries to validate data integration part of database testing.
- Involved in Test Case Peer Review to ensure test cases are appropriately translated and mapped to the requirements in UAT.
- Validated SSRS Reports per requirement and create defects for correcting the issues.
- Executed Manual (TFS) and automated test scripts in System Test environment.
- Transferred all the test scripts, libraries into GitHub every month as part of backup plan.
- Used Test Team Foundation Server (TFS) to document functional and non-functional requirements, design specifications, test cases and defects, and provide full traceability for projects.
- Performed Regression Testing, End to End Testing, and Interface Testing to make sure existing functionalities are not broken due to new enhancements.
- Run SQL queries to validate data integration part of database testing.
- Produced business analysis and testing deliverables such as:
 - Business requirements and business rules
 - Functional requirements and/or functional specifications
 - Non-functional requirements
 - Stakeholder requests
 - Test strategies
 - Test plans
 - Test cases
 - Transition plans
 - Traceability matrices

- Involved in Test Case Peer Review to ensure test cases are appropriately translated and mapped to the requirements.

Environment: JIRA, Confluence, MTM-TFS, SQL Server, SOAP UI, UFT, Putty, SSRS, GitHub

Client: State of California, CA

Oct 2016 – Dec 2017

Role: QA Consultant

Responsibilities:

- Involved in Development and Maintenance of test automation framework using VBScript
- Involved and represented in Sprint Planning, Sprint Retrospective, Sprint Review, Backlog grooming, daily Scrum meetings and provide status update
- Developed various business functions and generic functions in VBScript to reduce redundant scripting
- Involved in user acceptance testing support to ensure the highest quality product was released to production
- Analyzed test specifications and converted them into Manual test cases
- Run SQL queries to validate data integration part of database testing
- Involved in Test Case Peer Review to ensure test cases are appropriately translated and mapped to the requirements in UAT
- Managed Requirements in ALM (RTM) for requirement mapping to cover test cases coverage
- Responsible for PeopleSoft Validation (by triggering batch jobs, online transaction) for the financial transactions between MyCalPERs and Financial system for the payroll posting, and Receivables creation.

Environment: ALM, JIRA, Oracle DB, UFT, GitHub, SQL, UAT

Client: State of Maine, Augusta, ME

Mar 2016 – Sep 2016

Role: Test Lead/Principal Consultant

Responsibilities:

- Developed Test conditions and Test cases upon reviewing Business Requirements in JIRA Environment
- Executed test cases to submit for Eligibility for the programs like Maine Care, Child Care, FS, TANF and Med Needy in ACES Application
- Produced business analysis and testing deliverables such as:
 - Business requirements and business rules
 - Functional requirements and/or functional specifications
 - Non-functional requirements

- Test strategies
- Test plans
- Test cases
- Traceability matrices.
- Involved in Logging defects in JIRA and retest after defect moved to Test ownership.
- Worked on Data preload (Production version) validation between ACES data base and Siebel System for the new enhancements.
- Developed and executed regression test cases in **UFT** environment part of Automated regression testing.
- Performed Automated build validation for the end-to-end scenarios prior to upgrade into System Testing environment.
- Submitted for household eligibility via SOAPUI (in the form of XML) from federally facilitated marketplace and MMC system and validate in database and Siebel for the correctness of data.
- Developed and executed test cases in **Agile** environment for Siebel Phase 2 enhancements.

Environment: JIRA, UFT, ALM 11.0, Confluence, SOAP UI, Oracle DB

Client: [State of California, CA](#)

Role: [Test Lead](#)

Nov 2012 – Mar 2016

Responsibilities:

- Responsible for directing a team of 12 resources (Offshore and onshore with accountability for the testing of government-interfaced web applications, the optimization and automation of QA processes, and the transition of QA to **Agile** software practices.
- As a Test Lead with full system development lifecycle experience, including designing, developing, and implementing test plans, test cases and test processes fueling swift corrective actions.
- Managed ALM Requirements and Defect Management tool for test execution, Requirements Mapping, and Defect Management
- Developed, Reviewed, and executed Test Cases from Business Requirements and Use Cases in **HP ALM**.
- Used Test Application Lifecycle Management tools such as **HP ALM** to document functional and non-functional requirements, design specifications, test cases and defects, and provide full traceability for projects
- Developed test cases, provided support and guidance to users performing the tests, and worked as a bridge between users and development teams on defects and usability issues.

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- Initiated Eligibility through CALHEERS Portal and validate SCI Mock for the matching input values.
- Validated 834 carrier transaction between CALHEERS system and external carriers.
- To Support UAT team for the data setup and test cases execution.
- Coordinated with UAT team and System Testing team for the environments sharing (Notices and IRS testing shared same environment by both ST and UAT team).

Environment: QTP, ALM 11.0, SOAP UI, Oracle DB, Autosys, Putty, Integrated Eligibility System

Client: FannieMae, Washington DC

Mar 2011 – Oct 2012

Role: Test Lead

Responsibilities:

- Develop, Review, and execution of Test Cases from Business Requirements and Use Cases in **HP ALM**
- Using Test Application Lifecycle Management tools such as **HP ALM** to document functional and non-functional requirements, design specifications, test cases and defects, and provide full traceability for projects
- Leading and working within cross-functional teams that include business subject matter experts, application architects, developers, and testers
- Experience preparing test plans, test cases and document test results
- Conduct Defect triage meetings to triage the day to day defects from various testing activities
- To support the UAT, take lead in effectively managing the integration testing activities with participant integration
- Execute automated regression test scripts to test previously existing features of the applications in QTP environment
- Perform L2 Production Support and escalate to developers for the critical issues
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- Validate trade message service using TIBCO JMS for the STAMPS Trade Entry system; validate data integration between upstream and downstream systems as part of integration/interface testing

Environment: ALM, QTP, Oracle DB, Java, Java Script, Clear Case, WebLogic Server, PUTTY

Client: AT&T, Bangalore, India

Sept 2009 – Feb 2011

Role: Senior Software Engineer

Responsibilities:

- Responsible for resolving the Issues come from Production and QA Testing
- Validate billing for the Leasing site and customer information in BI reports
- Generate reports and validate each field in BI Reports
- Write test cases for each billing generation for lease site and customer information
- Involved in code optimizations and refactoring
- Participate in application analysis, test case creation, test script development, test execution, defect tracking and reporting (Customer billing and lease site)
- Involved in L3 Production Support
- Run Manual Build Validation for the high level critical scenarios and publish results to stake holders

Environment: HP Quality Center, Oracle DB, PUTTY, Windows

Client: Nortel Networks, Bangalore, India

May 2005 – Aug 2009

Role: Application Developer/Tester

Responsibilities:

- Production support & Development
- Involved in High-Level, Low-Level Design phase development
- Interacted with customer in North America and British Telecom (BT) in UK for day to day activities and updates as part of Onsite coordinator role in Belleville, ON – Canada
- Owned and contributed in Documentation for first draft version of development activities.
- Involved in analyzing defects and finding appropriate fixes in the maintenance release
- Interacted with Customer for new Features like GUI introduction to all phones with optimized images for approval.
- Involved in different phases for development and releases concurrently for customer patches
- Involved in server-side development with Servlets and Developed GUI based forms Understanding client's requirements and working on enhancements

- Significant Contribution to the Development of product, Active participation in Development, Improvement / Enhancement

Environment: HP Quality Center, Java, JSP, Servlets, Posgres DB, Unix, Clear Case, Apache Tomcat, Scrum

ACCOMPLISHMENTS

Following paper(s) published

- Novel Multiple Access Protocols Against Q-Learning-Based Tunnel Monitoring Using Flying Ad Hoc Networks
- Identification and classification of phishing emails based on Machine learning techniques to improve Cybersecurity
- Predictive Cyber Attack Detection in Cloud Environments with Machine Learning from the CICIDS 2018 Dataset

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- Bachelor of Science, Bharathiar University, Tamil Nadu, India 1997

Certifications:

- ITIL V3 Foundation
- Sun SCJP - Java Programmer
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TECHNICAL ENVIRONMENT

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RDBMS:	Oracle, MS Access, SQL Serve
Operating Systems:	Windows, UNIX, Linux,
MS Office:	MS Word, MS Excel, PowerPoint, SharePoint

MAJOR ASSIGNMENTS

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Mar 2019 - Present

Role: [Test Lead/Cyber Security](#)

Responsibilities:

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 - Test cases
 - Transition plans
 - Traceability matrices

- Involved in Test Case Peer Review to ensure test cases are appropriately translated and mapped to the requirements.

Environment: JIRA, Confluence, MTM-TFS, SQL Server, SOAP UI, UFT, Putty, SSRS, GitHub

Client: State of California, CA

Oct 2016 – Dec 2017

Role: QA Consultant

Responsibilities:

- Involved in Development and Maintenance of test automation framework using VBScript
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Mar 2016 – Sep 2016

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Responsibilities:

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- Submitted for household eligibility via SOAPUI (in the form of XML) from federally facilitated marketplace and MMC system and validate in database and Siebel for the correctness of data.
- Developed and executed test cases in **Agile** environment for Siebel Phase 2 enhancements.

Environment: JIRA, UFT, ALM 11.0, Confluence, SOAP UI, Oracle DB

Client: [State of California, CA](#)

Role: [Test Lead](#)

Nov 2012 – Mar 2016

Responsibilities:

- Responsible for directing a team of 12 resources (Offshore and onshore with accountability for the testing of government-interfaced web applications, the optimization and automation of QA processes, and the transition of QA to **Agile** software practices.
- As a Test Lead with full system development lifecycle experience, including designing, developing, and implementing test plans, test cases and test processes fueling swift corrective actions.
- Managed ALM Requirements and Defect Management tool for test execution, Requirements Mapping, and Defect Management
- Developed, Reviewed, and executed Test Cases from Business Requirements and Use Cases in **HP ALM**.
- Used Test Application Lifecycle Management tools such as **HP ALM** to document functional and non-functional requirements, design specifications, test cases and defects, and provide full traceability for projects
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- Coordinated for Build Validation after data refresh is completed and making sure basic functionalities working fine without any errors
- Run test scripts for the individual's eligibility for Medi-Cal (MEGI, Non-MEGI), QHP and APTC
- Worked with SAWS, LRS team to validate Non MAGI Medi-Cal cases initiated from SAWS and interact with MEDS for application processes for the integration testing.
- Initiated Eligibility through CALHEERS Portal and validate SCI Mock for the matching input values.
- Validated 834 carrier transaction between CALHEERS system and external carriers.
- To Support UAT team for the data setup and test cases execution.
- Coordinated with UAT team and System Testing team for the environments sharing (Notices and IRS testing shared same environment by both ST and UAT team).

Environment: QTP, ALM 11.0, SOAP UI, Oracle DB, Autosys, Putty, Integrated Eligibility System

Client: [FannieMae, Washington DC](#)

Mar 2011 – Oct 2012

Role: [Test Lead](#)

Responsibilities:

- Develop, Review, and execution of Test Cases from Business Requirements and Use Cases in **HP ALM**
- Using Test Application Lifecycle Management tools such as **HP ALM** to document functional and non-functional requirements, design specifications, test cases and defects, and provide full traceability for projects
- Leading and working within cross-functional teams that include business subject matter experts, application architects, developers, and testers
- Experience preparing test plans, test cases and document test results
- Conduct Defect triage meetings to triage the day to day defects from various testing activities
- To support the UAT, take lead in effectively managing the integration testing activities with participant integration
- Execute automated regression test scripts to test previously existing features of the applications in QTP environment
- Perform L2 Production Support and escalate to developers for the critical issues
- Resolve issues within SLA timeline and keep environment up all the time
- Coordinate with development team for defect fixes and participate in defect triage meetings

- Validate trade message service using TIBCO JMS for the STAMPS Trade Entry system; validate data integration between upstream and downstream systems as part of integration/interface testing

Environment: ALM, QTP, Oracle DB, Java, Java Script, Clear Case, WebLogic Server, PUTTY

Client: AT&T, Bangalore, India

Sept 2009 – Feb 2011

Role: Senior Software Engineer

Responsibilities:

- Responsible for resolving the Issues come from Production and QA Testing
- Validate billing for the Leasing site and customer information in BI reports
- Generate reports and validate each field in BI Reports
- Write test cases for each billing generation for lease site and customer information
- Involved in code optimizations and refactoring
- Participate in application analysis, test case creation, test script development, test execution, defect tracking and reporting (Customer billing and lease site)
- Involved in L3 Production Support
- Run Manual Build Validation for the high level critical scenarios and publish results to stake holders

Environment: HP Quality Center, Oracle DB, PUTTY, Windows

Client: Nortel Networks, Bangalore, India

May 2005 – Aug 2009

Role: Application Developer/Tester

Responsibilities:

- Production support & Development
- Involved in High-Level, Low-Level Design phase development
- Interacted with customer in North America and British Telecom (BT) in UK for day to day activities and updates as part of Onsite coordinator role in Belleville, ON – Canada
- Owned and contributed in Documentation for first draft version of development activities.
- Involved in analyzing defects and finding appropriate fixes in the maintenance release
- Interacted with Customer for new Features like GUI introduction to all phones with optimized images for approval.
- Involved in different phases for development and releases concurrently for customer patches
- Involved in server-side development with Servlets and Developed GUI based forms Understanding client's requirements and working on enhancements

- Significant Contribution to the Development of product, Active participation in Development, Improvement / Enhancement

Environment: HP Quality Center, Java, JSP, Servlets, Posgres DB, Unix, Clear Case, Apache Tomcat, Scrum

ACCOMPLISHMENTS

Following paper(s) published

- Novel Multiple Access Protocols Against Q-Learning-Based Tunnel Monitoring Using Flying Ad Hoc Networks
- Identification and classification of phishing emails based on Machine learning techniques to improve Cybersecurity
- Predictive Cyber Attack Detection in Cloud Environments with Machine Learning from the CICIDS 2018 Dataset