



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

## APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES

Date of Application:16-10-2024

Department	COMPUTER APPLICATIONS	Application No.	20240080
Area of Research	CYBERSECURITY FOR AI SYSTEMS	Research Mode	PART TIME

Name :SHANMUGAM.M

Date of Birth / Age :30-06-1972 / 52 Years

Gender :MALE

Category :BC

e-Mail ID :shanmugam.muthu@gmail.com

Mobile :+12104000123



*M. Shanmugam*

Father's/Husband's Name	MUTHU	Father's/Husband's Occupation	NONE
Family Income	190,100\$	Residential Type	RURAL
Birth Place	SENGANOOR, TAMIL NADU, INDIA	Mother Tongue	TAMIL
Religion	HINDU	Martial Status	SINGLE
Aadhaar No.	894669895794	PAN No.	BCUPS5177D
Physically Challenged	NO	Type of Disability	-

**Address for Communication:**

APT # 22207  
 701 N VISTA RIDGE BLVD  
 CEDAR PARK  
 TEXAS DISTRICT  
 TEXAS  
 UNITED STATES  
 Pin-78613

**Permenant Address:**

6/29 S  
 SENGANOOR, KONERIPATTI POST, POOLAMPATTI VIA  
 SANKARI  
 SALEM DISTRICT  
 TAMIL NADU  
 INDIA  
 Pin-637107

Qualification						
Degree	Discipline	College/university	Year Passed	AVG/CGPA	Class	Mode
BSC	BOTANY	BHARATHIYAR	1996	58	SECOND	REGULAR
PGDCA	COMPUTER APPLICATIONS	BHARATHIDASAN	2002	67.2	FIRST	REGULAR
MCA	COMPUTER APPLICATIONS	MADURAI KAMARAJ	2004	72	FIRST	DISTANCE

Experience				
Organization	Designation	Experience From	Experience TO	Work Nature
BRAVO SYSTEM	APPLICATIONS PROGRAMMER	2005-12-22	2008-09-19	SOFTWARE DESIGN AND DEVELOPMENT
MASTEK LIMITED	SOFTWARE ENGINEER	2008-09-24	2010-02-20	SOFTWARE DESIGN AND DEVELOPMENT
HCL AMERICA INC	TECHNICAL ARCHITECT	2010-02-04	2022-02-18	SOFTWARE ARCHITECT, DESIGN AND DEVELOPMENT

SHIPT INC	SENIOR DATA ENGINEER	2022-02-03	2024-10-16	ARCHITECT, DESIGN, DEVELOP THE BIGDATA APPLICATIONS AND TUNE THE DATA PIPELINES.
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Payment Details				
Transaction ID	Reference	Date of transaction	Amount	Status
20240080_241018091838	ZICI2L5038NSTO	18-10-2024	600	SUCCESS

## Building Scalable Architectures for Cybersecurity Data Analytics

### Introduction

In the current cybersecurity environment, data from sources such as network logs and user activities are growing rapidly and becoming more complex. Traditional security systems often struggle to keep pace, resulting in slower threat detection and response times. This situation highlights the need for scalable data engineering and science platforms that can efficiently manage large volumes of streaming data and provide effective analytics.

### Problem Statement

Current cybersecurity solutions face significant challenges in scalability and efficiency. Many existing architectures are not equipped to process vast datasets in real-time, resulting in performance bottlenecks. Additionally, the inability to integrate diverse data sources limits the effectiveness of threat detection algorithms. This research aims to address these challenges by designing a scalable architecture that leverages data engineering and data science techniques for enhanced cybersecurity analytics.

### Objectives

1. **Design a Scalable Architecture:** Develop an architecture that can efficiently ingest, store, and process large volumes of cybersecurity data.
2. **Integrate Diverse Data Sources:** Enable seamless integration of various data types (e.g., structured, semi-structured, and unstructured) from multiple sources.
3. **Enhance Analytics Capabilities:** Implement advanced analytics methods, including machine learning algorithms, to improve threat detection and response times.
4. **Evaluate Performance:** Assess the scalability and efficiency of the proposed architecture through comprehensive testing and analysis.

### Preliminary Analysis

Initial literature reviews indicate a gap in existing solutions regarding the integration of data engineering principles in cybersecurity analytics architectures. While there are frameworks focused on data processing, few adequately address the need for real-time analytics at scale. Preliminary analysis of recent advancements in big data technologies (e.g. Apache Spark) suggests potential pathways for building a robust architecture that can efficiently manage cybersecurity data workflows.

### Methodology

1. **Architecture Design & Data Integration:**
  - Utilize microservices architecture to ensure modularity and scalability.
  - Implement and upgrade a data lake approach for flexible storage and management of diverse datasets for ETL/ELT process for various source system
  - Incorporate stream processing frameworks (eg Data Bricks) for real-time data ingestion and analytics. Use webhooks AI Techniques and build API for real-time data integration.
2. **Implementation & Performance Evaluation**
  - Develop machine learning models for anomaly detection and predictive analytics.
  - Utilize advanced visualization tools to present insights in an accessible manner.
  - Conduct stress testing and performance benchmarking under varying loads.
  - Analyze latency and throughput to assess the architecture's ability to scale.

### Conclusion

This research aims to advance the field of cybersecurity and AI by developing scalable architectures that utilize data engineering and data science space. By tackling existing limitations and incorporating advanced analytics, the proposed solution strives to improve the effectiveness of cybersecurity measures, resulting in faster and more accurate threat detection and response for end users

SR 20066708



அறிவியற் புலம்

FACULTY OF SCIENCE

மதுரை காமராசர் பல்கலைக்கழக ஆட்சிப்பேரவை

சண்முகம். மு.

கணினிப் பயன்பாட்டியல் நிறைஞர் பட்டம்

பெறுதற்குத் தகுதியுடையவர் என முறையாக அமைக்கப்பெற்ற தேர்வினோர் நவம்பர் 2004 இல் நடைபெற்ற

தேர்வுகளில் சான்றளித்தவாறு, முதல் வகுப்பு

பெற்று இச்சான்றிதழ் பெறுதற்கு உரியவர் ஆகின்றார் என இதன்வழி அறிவிக்கின்றது.

பல்கலைக்கழக இலச்சினையுடன் இது வழங்கப்படுகின்றது.

The Senate of the MADURAI KAMARAJ UNIVERSITY

hereby makes known that SHANMUGAM M 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, and having been placed by

them in the FIRST CLASS at the Examination held in NOVEMBER 2004

Register No. : A3M7077001 Centre Code : 801



ISSUED ON

- 6 MAR 2009

Given under the seal of the University

பல்கலைநகர், மதுரை - 625 021  
Palkalainagar, Madurai - 625 021  
நாள் Dated 12 November 2008

தேர்வாளையர்  
Controller of Examinations

பதிவாளர்  
Registrar

துணைவேந்தர்  
Vice-Chancellor

Centre Code :25



Reg. No. PD 19990270 :Code No. 140ED :S.No. 17586

பாரதிதாசன் பல்கலைக்கழகம்  
BHARATHIDASAN UNIVERSITY

அறிவியல் புலம்  
FACULTY OF SCIENCE

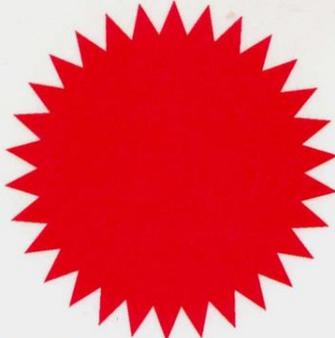
பாரதிதாசன் பல்கலைக்கழக ஆட்சிக்குழு ஏப்ரல் 2002 ஆம் ஆண்டு  
நடத்திய கணிப்பொறியியலும் பயன்பாடும் தேர்வில்

மு. சண்முகம்

என்பவர் முதல் வகுப்பில் தேர்ச்சி பெற்றார் என்று தக்க தேர்வாளர்கள்  
சான்றளித்தபடி முதுநிலைப் பெருஞ்சான்றிதழை  
அவருக்குப் பல்கலைக்கழக இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the **BHARATHIDASAN UNIVERSITY** hereby makes known  
that **M. SHANMUGAM** has been admitted to the  
**POST GRADUATE DIPLOMA IN COMPUTER SCIENCE AND APPLICATIONS**,  
having been certified by duly appointed Examiners to be qualified to receive  
the same at the Examination held in **APRIL 2002**  
and placed in **FIRST Class**.

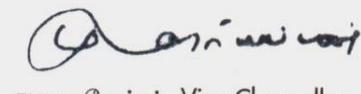
Given under the seal of the University.



திருச்சிராப்பள்ளி  
Tiruchirappalli

நாள் : 28 FEB 2003  
Dated :

  
பதிவாளர் Registrar

  
குணவேங்கர் Vice-Chancellor



பாரதியார் பல்கலைக் கழகம்  
Bharathiar University

அறிவியல் புலம்

FACULTY OF SCIENCE

பாரதியார் பல்கலைக் கழகம் மே 1996ஆம் ஆண்டு நடத்திய தேர்வில்  
சண்முகம் மு, பகுதி Iல் மூன்றாம் வகுப்பிலும், பகுதி IIல் மூன்றாம் வகுப்பிலும்,  
பகுதி III தாவரவியலில் இரண்டாம் வகுப்பிலும் தேர்ச்சி பெற்றுத் தகுதியடைந்திருப்பதாக,  
உரிய தேர்வாளர்கள் சான்றளித்ததை ஏற்று, அறிவியல் இளையர் என்னும் பட்டத்தினை அவருக்குப்  
பல்கலைக் கழக இலச்சினையுடன், பாரதியார் பல்கலைக் கழக ஆட்சிக்குழு வழங்குகின்றது.

The Syndicate of the Bharathiar University hereby makes known that SHANMUGAM M has been admitted to the Degree of BACHELOR OF SCIENCE, having been certified by duly appointed Examiners to be qualified to receive the same in BOTANY and was placed in the THIRD Class in Part I, THIRD Class in Part II and SECOND Class in Part III at the Examination held in MAY 1996.

Given under the Seal of the University.



கோயம்புத்தூர்

Coimbatore

நாள்

Dated: 19th December 1996

1154463



பதிவாளர்

Registrar



B.E DIC MSc (Tech) PhD DSS FIE MIIM

துணைவேந்தர்

Vice-Chancellor

0434160

# Bharathidasan University, Tiruchirappalli

P.G.D.C.A

DEGREE EXAMINATIONS

APRIL 2002

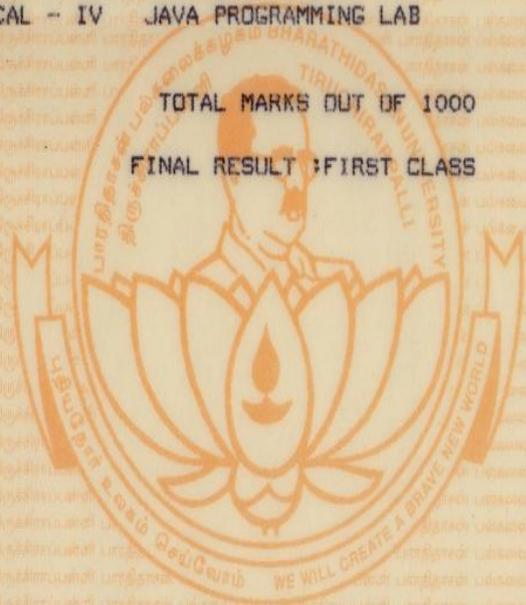
CONSOLIDATED

## STATEMENT OF MARKS



NAME OF CANDIDATE		REGISTER NO.	COURSE
SHANMUGAM M		PD 19990270	POST GRADUATE DIPLOMA IN COMPUTER SCIENCE AND APPLICATIONS
CENTRE CODE	25	BISHOP HEBER COLLEGE TIRUCHIRAPPALLI - 620 017	

SUBJECT CODE	SEME STER	TITLE OF SUBJECT	APPEARED	MAX MARKS		MARKS AWARDED			RESULT
				I.A.	U.E.	I.A.	U.E.	TOTAL	
PGDCA1R	1	DIGITAL COMPUTER FUNDAMENTALS	NOV 2000	25	75	17	33	50	PASS
PGDCA2R	1	PROGRAMMING IN C & DATA STRUCTURES	NOV 2001	25	75	13	44	57	PASS
PGDCA3R	1	COBOL PROGRAMMING	APR 2000	25	75	13	40	53	PASS
PGDCA4R	1	PRACTICAL - I COBOL LAB	NOV 1999	25	75	17	33	50	PASS
PGDCA5R	1	PRACTICAL - II C LAB	NOV 1999	25	75	23	70	93	PASS
PGDCA6R	2	SYSTEMS ANALYSIS & DESIGN	NOV 2001	25	75	21	47	68	PASS
PGDCA7R	2	DATA BASE MANAGEMENT SYSTEM	APR 2002	25	75	17	42	59	PASS
PGDCA8R	2	INTERNET & JAVA PROGRAMMING	NOV 2000	25	75	18	48	66	PASS
PGDCA9R	2	PRACTICAL - III PC PACKAGES LAB	APR 2000	25	75	25	74	99	PASS
PGDCA10R	2	PRACTICAL - IV JAVA PROGRAMMING LAB	APR 2000	25	75	25	52	77	PASS
TOTAL MARKS OUT OF 1000								672	
FINAL RESULT : FIRST CLASS									

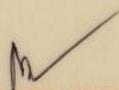


DATE: 13/8/2002



OFFICE SEAL

ANY CORRECTION WITHOUT THE ATTESTATION OF  
THE CONTROLLER OF EXAMINATIONS IS INVALID

  
UNIT OFFICER/SECTION HEAD

I.A. - INTERNAL ASSESSMENT U.E. UNIVERSITY EXAMINATION ABS - ABSENT  
MINIMUM FOR PASS IN EACH SUBJECT 40% IN I.A. 40% IN U.E. AND 50% IN TOTAL (I.A. + U.E.)  
MAXIMUM MARKS FOR DISSERTATION AND VIVA VOCE: 100 (DISS:75+VIVA VOCE:25)  
PASSING MINIMUM: 50% IN AGGREGATE WITH 40% IN VIVA VOCE.



Centre Code :25

Reg. No. PD 19990270 :Code No. 140ED :S.No. 17586

பாரதிதாசன் பல்கலைக்கழகம்  
BHARATHIDASAN UNIVERSITY

அறிவியல் புலம்  
FACULTY OF SCIENCE

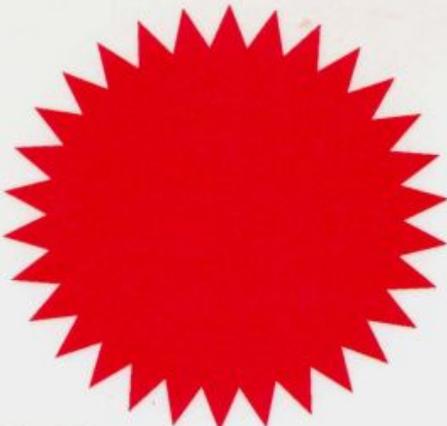
பாரதிதாசன் பல்கலைக்கழக ஆட்சிக்குழு ஏப்ரல் 2002 ஆம் ஆண்டு  
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மு. சண்முகம்

என்பவர் முதல் வகுப்பில் தேர்ச்சி பெற்றார் என்று தக்க தேர்வாளர்கள்  
சான்றளித்தபடி முதுநிலைப் பெருஞ்சான்றிதழை  
அவருக்குப் பல்கலைக்கழக இலச்சினையுடன் வழங்குகிறது.

The Syndicate of the **BHARATHIDASAN UNIVERSITY** hereby makes known  
that **M. SHANMUGAM** has been admitted to the  
**POST GRADUATE DIPLOMA IN COMPUTER SCIENCE AND APPLICATIONS,**  
having been certified by duly appointed Examiners to be qualified to receive  
the same at the Examination held in **APRIL 2002**  
and placed in **FIRST Class.**

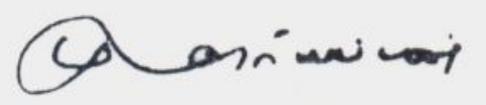
Given under the seal of the University.



திருச்சிராப்பள்ளி  
Tiruchirappalli

நாள் : 28 FEB 2003  
Dated :

  
பதிவாளர் Registrar

  
துணைவேங்கர் Vice-Chancellor



# BISHOP HEBER COLLEGE

TIRUCHIRAPPALLI - 620 017

## TRANSFER CERTIFICATE

( Affiliated to Bharathidasan University )

ORIGINAL

EVENING

Serial No. **F2084**

Admission No. **8495**

Roll No. **99235**

1 Name of the College : **BISHOP HEBER COLLEGE, TIRUCHIRAPPALLI - 620 017**

2 Name of the District : **TIRUCHIRAPPALLI.**

3 Name of the Pupil (in BLOCK LETTERS as entered in +2 or equivalent certificate) : **SHANMUGAM M**

4 Nationality, Religion and Caste : **INDIAN, HINDU, GONGU VELLALAR**

5 Community : **SC/ST a** **BC b** **MBC c** **DNT d**

e. Convert to Christianity from Scheduled Caste : **NO**

6 Sex : **MALE**

7 Date of Birth as entered in the Admission Register in ( figures and words ) : **30/06/1972 THIRTIETH JUNE 1972**

8 Personal marks of Identification : a) **---** b) **---**

9 Date of admission and class in which admitted (the year to be entered in words) : **25/06/1999, FIRST PGDCA**

10 a) Class in which the pupil was studying at the time of leaving (in words) : **PGDCA**  
b) The course offered : **MAIN : PGDCA ALLIED : -----**

c) Language offered under Part - I : **---**  
d) Medium of Instruction : **ENGLISH**

11 Whether the student has paid all the fees due to the College : **YES**

12 Whether the student was in receipt of any scholarship (Nature of the scholarship to be specified) or Educational Concessions : **NO**

13 Whether the student has undergone Medical Inspection, if any, during the academic year (first or repeat to be specified) : **NO**

14 Date on which the student actually left the College : **07/04/2000**

15 The Student's Conduct and Character : **GOOD**

16 Date on which application for Transfer Certificate was made by the Student : **05/06/2000**

17 Date of the Transfer Certificate : **05/06/2000**

18 Course of Study : **---**

Name of the College	Academic year	Course Studied	First Language	Medium of Instruction
<b>BISHOP HEBER COLLEGE Tiruchirappalli - 17</b>	<b>1999 - 2000</b>	<b>PGDCA</b>	<b>---</b>	<b>ENGLISH</b>



*[Signature]*  
**PRINCIPAL,**  
**Bishop Heber (Evening) College**  
**Tiruchirappalli - 620 017**  
**Signature of the Principal**

Note: (1) Erasures and unauthenticated or fraudulent alteration in the certificate will lead to its cancellation.  
 (2) Should be signed in ink by the Head of the Institution who will be held responsible for the correctness of the entries.

**Declaration by the Student** } I hereby declare that the particulars recorded against items 2 to 8 are correct and that no change will be demanded by me in future

*[Signature]*  
**Signature of the student**

HCL AMERICA, INC.

(A subsidiary of HCL TECHNOLOGIES LTD.)

230, Pitters Avenue, Sunnyvale, California 94085-4113 U.S.A.

Tel:+1 408 733 0480 Fax:+1 408 733 0482

[www.hcl.com](http://www.hcl.com)

[www.hcl.com](http://www.hcl.com)

## EXPERIENCE LETTER

### TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. SHANMUGAM MUTHU**, Employee code 51318852 was an employee of **HCL Group** from **Feb 04, 2010** till **Feb 18, 2022**.

As per our records, his last assignment was with **HCL AMERICA INC.** from **Oct 27, 2012** till **Feb 18, 2022** and his last designation at the time of exit from the company was **SENIOR TECHNICAL LEAD**.

We wish **SHANMUGAM MUTHU** all the best in his future endeavours.

For HCL AMERICA INC.



Authorized Signatory

Date: Mar 13, 2022

This is a computer-generated document and doesn't require a company seal.

**HCL**



Date: May 12, 2023

Mr. Shanmugam Muthu  
Lead Consultant -Data Engineer

RE: Experience Letter

Dear Shanmugam,

This is to confirm that you have been relieved from the services of the company as on closing hours of **Thursday, 18 April 2023**.

We appreciate you for the services rendered since **3 February 2022** and wish you all the best for all your future endeavors.

Sincerely,

*Anju Vidhani*

Anju Vidhani  
Manager HRBP  
Email: [anju.vidhani@factspan.com](mailto:anju.vidhani@factspan.com)



19<sup>th</sup> February, 2010

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. Shanmugam Muthu was employed in our organization as Software Engineer from 24<sup>th</sup> September, 2008 to 22<sup>nd</sup> January, 2010.

During this tenure he has carried out his duties responsibly.

He has proven himself to be a responsible and dedicated professional throughout his tenure with us and has always demonstrated excellent conduct.

We appreciate his contributions to the organization and wish him all the best for future endeavors.

For Mastek Ltd.

Supriya Keluskar  
Assistant Manager- Human Resources

आयकर विभाग  
INCOME TAX DEPARTMENT

भारत सरकार  
GOVT. OF INDIA

SHANMUGAM M  
KUPPANNAN MUTHU  
30/06/1972

Permanent Account Number  
BCUPS5177D

*M. Shanmugam*  
Signature





UNION OF INDIA Driving Licence (Tamil Nadu)



DL. No. **TN29T20040000944**

NT



Date of Issue  
**20-07-2004**

Valid Till  
**29-06-2032**



Date of Birth  
**30-06-1972**

Blood Group  
**B+**

Name  
**SHANMUGAM M**



Son/Daughter/Wife of  
**MUTHU K**

**TN29T20040000944**



LMV  
20-07-2004



MCWG  
20-07-2004

Badge Date

Badge No.



Address

6/29 SENGANOOR  
KONERIPATTY AGRAHARAM  
SANKARI TK, SALEM DT 637107

Holder's Signature

Signature of Issuing Authority

TN52 SANKARI RTO

**Texas** USA  
DRIVER LICENSE  
Director: *Steven C. McCreary*

**DRIVER LICENSE**

4d. DL: **36794650** 9. Class: **C**  
4b. Exp: **06/30/2029**  
3. DOB: **06/30/1972** 4a. Iss: **11/17/2020**

1. **MUTHU**  
2. **SHANMUGAM**

8. 3838 LOCKHILL SELMA RD #323  
SAN ANTONIO, TX 78230

12. Rest: **NONE** 9a. End: **NONE**  
16. Hgt: **6'-02"** 15. Sex: **M** 18. Eyes: **BRO**  
5. DD: **30624051019107728610**

*H. Shy*

CLASS: C-Single or comb veh w/ GVWR ≤ 26,000 lbs which transports placarded HAZMAT or ≥ 16 pass, including driver  
REST: NONE  
END: NONE  
REV: 02/23/2020

10003841796

DOB: 06/30/1972

TEXAS ROADSIDE ASSISTANCE: 1-800-525-5555

Directive to physician has been filed at Tel #  
Emergency Contact #  
Allergic reaction to drugs:

HCL AMERICA, INC.

(A subsidiary of HCL TECHNOLOGIES LTD.)

230, Pitters Avenue, Sunnyvale, California 94085-4113 U.S.A.

Tel:+1 408 733 0480 Fax:+1 408 733 0482

[www.hcl.com](http://www.hcl.com)

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## EXPERIENCE LETTER

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This is to certify that **Mr. SHANMUGAM MUTHU**, Employee code 51318852 was an employee of **HCL Group** from **Feb 04, 2010** till **Feb 18, 2022**.

As per our records, his last assignment was with **HCL AMERICA INC.** from **Oct 27, 2012** till **Feb 18, 2022** and his last designation at the time of exit from the company was **SENIOR TECHNICAL LEAD**.

We wish **SHANMUGAM MUTHU** all the best in his future endeavours.

For HCL AMERICA INC.



Authorized Signatory

Date: Mar 13, 2022

This is a computer-generated document and doesn't require a company seal.





Date: May 12, 2023

Mr. Shanmugam Muthu  
Lead Consultant -Data Engineer

RE: Experience Letter

Dear Shanmugam,

This is to confirm that you have been relieved from the services of the company as on closing hours of **Thursday, 18 April 2023**.

We appreciate you for the services rendered since **3 February 2022** and wish you all the best for all your future endeavors.

Sincerely,

*Anju Vidhani*

Anju Vidhani  
Manager HRBP  
Email: [anju.vidhani@factspan.com](mailto:anju.vidhani@factspan.com)



19<sup>th</sup> February, 2010

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. Shanmugam Muthu was employed in our organization as Software Engineer from 24<sup>th</sup> September, 2008 to 22<sup>nd</sup> January, 2010.

During this tenure he has carried out his duties responsibly.

He has proven himself to be a responsible and dedicated professional throughout his tenure with us and has always demonstrated excellent conduct.

We appreciate his contributions to the organization and wish him all the best for future endeavors.

For Mastek Ltd.



Supriya Keluskar  
Assistant Manager- Human Resources

\*CERTIFICATE No.

1804531



DISTRICT CODE 06

TALUK CODE 06

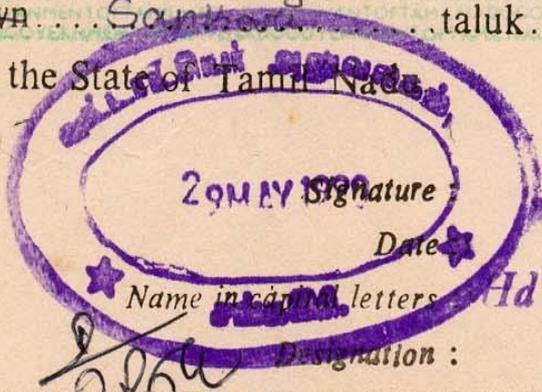
VILLAGE CODE 017

# COMMUNITY CERTIFICATE

This is to certify that M. SHANMUGAM.....  
 son/daughter of Thiru.....K. Muthu.....  
 of Honerupatty Ag. village/town Sankari..... taluk  
Salem..... district of the State of Tamil Nadu  
 belongs to..... KONGU VELLALAR..... community, which  
 is recognised as a Backward Class/Scheduled Caste/Scheduled Tribe  
 as per G.O. Ms. No. 1564 S.W.D. .... Dated 30-7-85.../The  
 S.C. and S.T. Orders (Amendment) Act, 1976, vide Sl. No. 84...

2. It is certified that K. Muthu..... and  
 his/her family ordinarily reside(s) at Senkanur, Honerupatty Ag.  
 village/town..... Sankari..... taluk..... Salem.....  
 district of the State of Tamil Nadu

Seal



A. KRISHNAN  
 Hd Qrs. Dy. Tahsildar  
**SANKARI**

*M 2 WW*  
*28590*

\* This Certificate Number is to be filled in the Application Forms.

NOTE.—Competent Authorities for issue of Certificate : For SC/STs, except Konda Reddis,  
 Taluk Tahsildars; for Konda Reddis, R.D.O.'s; for B.Cs. and O.Cs., Head Quarter's  
 Deputy Tahsildars/Special Deputy Tahsildars.