



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

**APPLICATION FOR ADMISSION TO Ph.D. PROGRAMMES**

Date of Application:22-09-2024

|                  |                                  |                 |           |
|------------------|----------------------------------|-----------------|-----------|
| Department       | COMPUTER SCIENCE AND ENGINEERING | Application No. | 20240051  |
| Area of Research | ARTIFICIAL INTELLIGENCE          | Research Mode   | FULL TIME |

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| Qualification |            |                    |             |          |             |         |
|---------------|------------|--------------------|-------------|----------|-------------|---------|
| Degree        | Discipline | College/university | Year Passed | AVG/CGPA | Class       | Mode    |
| B.E           | FULL TIME  | CSE                | 2019        | 68.9     | FIRST       | REGULAR |
| M.E           | FULL TIME  | CSE                | 2021        | 85.3     | DISTINCTION | REGULAR |

| Experience                    |                                      |                 |               |             |  |
|-------------------------------|--------------------------------------|-----------------|---------------|-------------|--|
| Organization                  | Designation                          | Experience From | Experience TO | Work Nature |  |
| FRESA TECHNOLOGIES            | ANDROID MOBILE APPLICATION DEVELOPER | 2022-11-07      | 2023-03-07    |             |  |
| FRESA TECHNOLOGIES            | SALES EXECUTIVE                      | 2022-06-07      | 2022-11-06    |             |  |
| CLAMYSYS CONSULTANCY SERVICES | BUSINESS                             | 2018-08-09      | 2019-04-25    |             |  |

| Payment Details       |                |                     |        |         |
|-----------------------|----------------|---------------------|--------|---------|
| Transaction ID        | Reference      | Date of transaction | Amount | Status  |
| 20240051_241005161936 | ZHD5QMW02GA84W | 05-10-2024          | 600    | SUCCESS |

# Resource Allocation of Virtual Machine in Cloud Fog Using Hash Algorithm

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## Abstract

Cloud computing is used as a potential substitute for catering storage service in the field of computer science and information technology. But at the same time security concerns of cloud storage are the potential threats in its widespread implementation. Privacy breach, malicious variation and data losses are the few emerging cyber threats against cloud storage. Nowadays, fog server based three-layer architecture is used for safe storage employing multiple clouds. The Hash-Solomon code and customized hash algorithm are used in order to attain the goal. However, it resulted in loss of lesser percentage of data to cloud servers and failed to offer enhanced modification detection and data recoverability.

**Keywords: Cloud Computing, Fog Server, Hash Algorithm**

## I. INTRODUCTION

Recently, cloud computing has become an increasingly popular service for its flexibility and scalability, which motivates many organizations, institutions and companies to prefer to outsource data services to cloud platform [1]. At the same time, much attention has been paid to cope with the special security and privacy problems in outsourced cloud [2], [3]. On one hand, to protect the data confidentiality, the data owner (DO) encrypt the sensitive information of his outsourced data, such as income level, health records, personal photos before the dataset is uploaded to the cloud [4], [5]. On the other hand, data owner may plan to rely on cloud platform for querying of the datasets stored in cloud, not just for storage and management. Therefore, a large amount of secure schemes has been proposed. The secret keys used by data sources to make names won't be traded to clients for the result affirmation; for the most part, a malicious client with the private keys can plan with the server to change the data and make relating names to mislead distinctive clients. In this paper, we focus on the affirmation of the outsourced figuring over open data streams, while sensitive data protection is outside the degree of our work.

## II. RELATED WORKS

Ramathilagam and Vijayalakshmi [6] have done an extensive review on various algorithms found in literatures to solve scheduling problems in cloud environment. The limitations along with the benefits of those algorithms were also presented. Yan et. al [7], proposed a scheme to deduplicate encrypted data stored in cloud based on ownership challenge and proxy re-encryption. It integrates cloud data deduplication with access control. They evaluated its performance based on extensive analysis and computer simulations. The results show the superior efficiency and effectiveness of the scheme for potential practical deployment, especially for big data deduplication in cloud storage. Yu et.al in their research [8] proposed a propose a dynamic resource allocation strategy to counter DDoS attacks against individual cloud customers. When a DDoS attack occurs, they employed the idle resources of the cloud to clone sufficient intrusion prevention servers for the victim in order to quickly filter out attack packets and guarantee the quality of the service for benign users simultaneously. They established a mathematical model to approximate the needs of our resource investment based on queueing theory. Through careful system analysis and real-world data set experiments, we conclude that we can defeat DDoS attacks in a cloud environment. Priyalatha and Ramathilagam [9] developed a new task scheduling LCGA algorithm in cloud computing environment. This paper focused on task scheduling in hybrid cloud environment with the explicit aim of resource s cost minimization. This goal was achieved by a graph-based task scheduling algorithm which considers resources from both the private clouds and public clouds. The simulation results proved that on average, our algorithm optimizes cost savings better when compared to the other proposed algorithms. Ramathilagam and Vijayalakshmi [10] proposed an improved Artificial Bee Colony (ABC) based on IaaS Cloud Partial Critical Path (IC-PCP) with Replication algorithm to attain the lesser price even as allocating a deadline set by the user in cloud scheduling. The outcome demonstrated the scheduler can discover excellent schedules of deadlines being satisfied and declining the complete execution time of application as the planned cost obtainable for imitation increases.

### III. PERTAINING ANTHOLOGIES

The k-nearest neighbors (k-NN) query is a fundamental primitive in spatial and multimedia databases [11]. It has extensive applications in location-based services, classification & clustering and so on. With the promise of confidentiality and privacy, massive data are increasingly outsourced to cloud in the encrypted form for enjoying the advantages of cloud computing (e.g., reduce storage and query processing costs). Recently, many schemes have been proposed to support k-NN query on encrypted cloud data. However, prior works have all assumed that the query users (QUs) are fully-trusted and know the key of the data owner (DO), which is used to encrypt and decrypt outsourced data. The assumptions are unrealistic in many situations, since many users are neither trusted nor knowing the key [12]. The general shortcomings of the existing systems are reportedly; uploading a single data at a given time. Moreover, only a single key for security of each parameter is produced.

### IV. PROPOSED SYSTEM

The propose a novel scheme for secure k-NN query on encrypted cloud data with multiple keys, in which the DO and each QU all hold their own different keys, and do not share them with each other; meanwhile, the DO encrypts and decrypts outsourced data using the key of his own. Our scheme is constructed by a distributed two trapdoors public-key cryptosystem (DT-PKC) and a set of protocols of secure two-party computation, which not only preserves the data confidentiality and query privacy but also supports the offline data owner. Our extensive theoretical and experimental evaluations demonstrate the effectiveness of our scheme in terms of security and performance.

Cloud computing is a model for enabling ubiquitous, convenient, on demand network access to a shared pool of configurable computing resources. Since an Inter Cloud is a large scale distributed and interconnected computer system, interactions among its sub components (i.e., Clouds) and among stakeholders (i.e., consumers and Cloud providers) can be complex. In an Inter Cloud, computing resources owned and administered by different Cloud providers are pooled to serve multiple consumers, and applications and data are available to and shared by a broad group of cross enterprise and cross platform users. Inter Cloud resource pooling and sharing involve 1) combining resources through cooperation among Clouds, 2) mapping and Scheduling shared resources through coordination, and 3) establishing contracts between Clouds and consumers, and among Clouds through negotiation. There are five modules for the Cloud Computing.

#### A. User Interface Design

This is the first module of the proposed work. The important role for the user is to move login window to user window. This module has created for the security purpose. In this login page we must enter login user id and password. It will check username and password is match or not (valid user id and valid password). If we enter any invalid username or password we can't enter into login window to user window it will shows error message. So we are preventing from unauthorized user entering into the login window to user window. It will provide a good security for our project. So server contain user id and password server also check the authentication of the user. It well improves the security and preventing from unauthorized user enters the network. In our project we are using JSP for creating design. Here we validate the login user and server authentication.

#### B. Block Diagram of the Proposed System

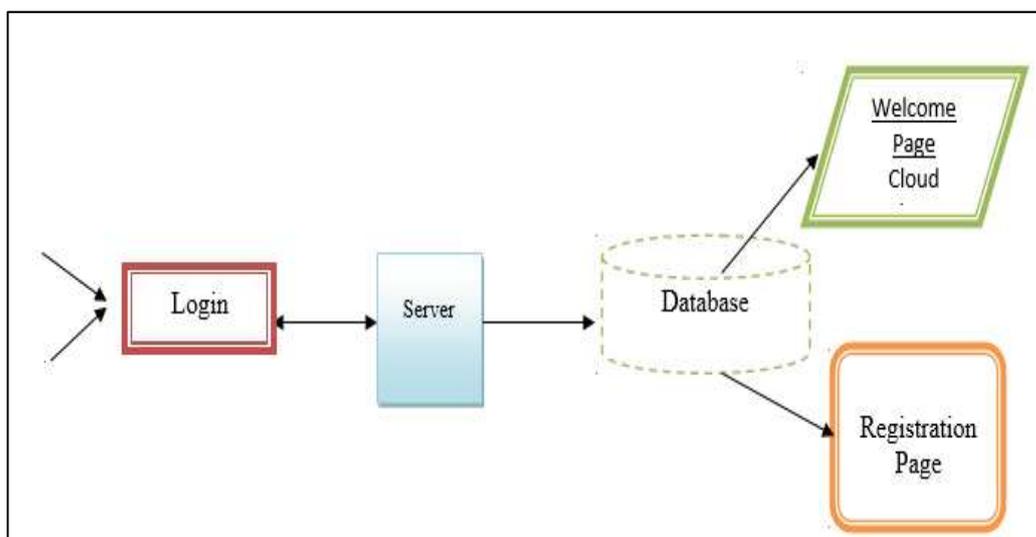


Fig. 1: User Interface Diagram

### C. System Methodology

```

KeyGen( $1^\kappa$ ) :
1. for  $j = 1$  to  $l$  do
2.   choose a random number  $sk_j = s_j \in Z_q^*$  as
   the secret key
3.   compute  $pk_j = g^{s_j}$ 
4.   output  $(pk_j, sk_j)$ 
5. end for
TagGen( $sk_j, i, \mathcal{X}_{j,i}$ ) :
1. compute  $\sigma_{j,i} = (g_1^{h_1(M_j,i)} g_2^{h_2(M_j,i)} g_3^{\mathcal{X}_{j,i}})^{sk_j}$ 
2. output  $\sigma_{j,i}$ 
Evaluate( $\mathcal{F}_{GS}, \mathcal{X}_j$ ) :
1. compute  $res = \sum_{i \in \Delta} \mathcal{X}_{j,i}$ 
2. output  $res$ 
GenProof( $\mathcal{F}_{GS}, \sigma_j, \mathcal{X}_j$ ):
1. compute  $\pi = \prod_{i \in \Delta} \sigma_{j,i}$ 
2. output  $\pi$ 
CheckProof( $\mathcal{F}_{GS}, pk_j, res, \pi$ ) :
1. set  $S_\Delta = (S_1, S_2)$ 
2. compute  $S_1 = \sum_{i \in \Delta} h_1(M_j, i)$  and  $S_2 = \sum_{i \in \Delta} h_2(M_j, i)$ 
3. if  $(e(\pi, g) = e(g_1^{S_1} g_2^{S_2} g_3^{res}, pk_j))$  then
4.   output 1
5. else
6.   output 0
7. end if

```

Fig. 2: Proposed System Methodology

### D. Owner Login and File upload

This is the second module of our project. The important role for the Product owners is to move login window to Product owner window. Owner upload file, on that time file will splitter in to four different part and store in four different path with different keys.

### V. IMPLEMENTATION AND OUTPUT

The hardware requirements may serve as the basis for a contract for the implementation of the system and should therefore be a complete and consistent specification of the whole system. They are used by software engineers as the starting point for the system design. It shows what the system does and not how it should be implemented.

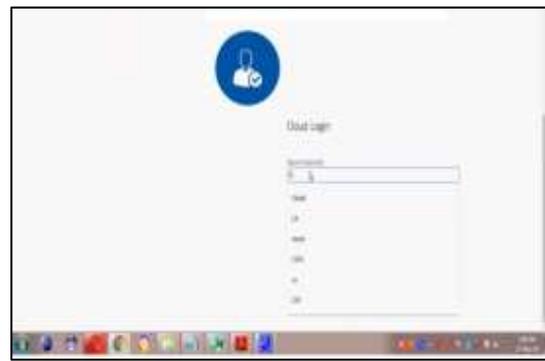
- Processor : Duall Core 2 Duos.
- Ram : 2gb dd Ram
- Hard Disk : 250 Gb

The software requirements document is the specification of the system. It should include both a definition and a specification of requirements. It is a set of what the system should do rather than how it should do it. The software requirements provide a basis for creating the software requirements specification. It is useful in estimating cost, planning team activities, performing tasks and tracking the team's and tracking the team's progress throughout the development activity.

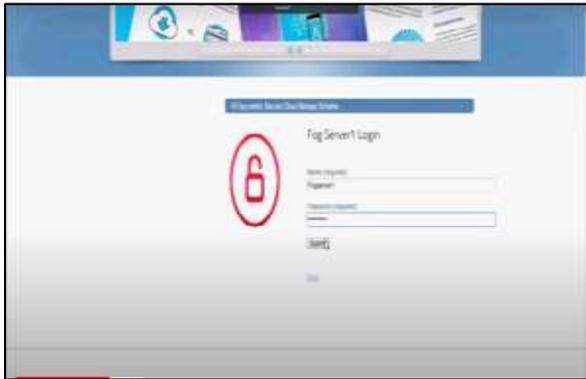
- Front End : J2ee (Jsp, Servlet), Struts
- Back End : My Sql 5.5
- Operating System : Windows 7
- Ide : Eclipse



a



b



c



d



e



f



g



h

Fig. 3: (a-h) Output Screenshots of the Proposed System

## VI. CONCLUSION

In this paper, we focused on the problem of supporting k-NN query over encrypted cloud data while the data owner cannot share his key with query users. For this a new solution is proposed with multiple keys to solve the key sharing problems thoroughly. At the core of our scheme, a series of novel secure protocols based on Twin-Cloud structure and DT-PKC cryptosystem is presented. We showed a theoretical analysis that our scheme can protect the data confidentiality and query privacy. Finally, extensive experimental evaluations demonstrate the efficiency and the scalability of the proposed scheme. As a future work, we will extend our work to support other data mining tasks, such as classification and similarity computation.

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SIVAKASI - 626 140

## PG DEGREE EXAMINATIONS



### CONSOLIDATED STATEMENT OF GRADES

Sl. No. : PSRPG 000300

|                       |  |             |        |                             |             |  |
|-----------------------|--|-------------|--------|-----------------------------|-------------|--|
| NAME OF THE CANDIDATE | SHEIRLY TWINKLE C                      |             |        | REGISTER NO                 | 1923015     |  |
| DATE OF BIRTH         | 11.05.1996                             | GENDER      | Female | MONTH & YEAR OF EXAMINATION | June 2021   |  |
| MODE OF STUDY         | FULL TIME                              | REGULATIONS | 2019   | DATE OF PUBLICATION         | 03-Aug-2021 |  |
| PROGRAMME & BRANCH    | M.E - Computer Science and Engineering |             |        |                             |             |  |

| SEM NO. | COURSE CODE | COURSE TITLE                                 | CREDITS | LETTER GRADE | GRADE POINT | MONTH & YEAR OF PASSING |
|---------|-------------|--|---------|--------------|-------------|-------------------------|
| 01      | 192CS11     | Mathematical Foundations of Computer Science | 3       | B+           | 7           | DEC-19                  |
| 01      | 192CS12     | Advanced Data Structures                     | 3       | A            | 8           | DEC-19                  |
| 01      | 192CS13     | Data Science                                 | 3       | B+           | 7           | DEC-19                  |
| 01      | 192CSE03    | Block Chain and Cryptography                 | 3       | B+           | 7           | DEC-19                  |
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| 01      | 192AC01     | Constitution of India                        | MC      | A+           | 9           | DEC-19                  |
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| 01      | 192CS15     | Data Science Laboratory                      | 2       | O            | 10          | DEC-19                  |
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| 02      | 192CS22     | Soft Computing                               | 3       | A+           | 9           | APR-20                  |
| 02      | 192CS23     | Ethical Hacking                              | 3       | A            | 8           | APR-20                  |
| 02      | 192CSE08    | Human and Computer Interaction               | 3       | O            | 10          | APR-20                  |
| 02      | 192AC02     | Disaster Management                          | MC      | A+           | 9           | APR-20                  |
| 02      | 192CS24     | Soft Computing Laboratory                    | 2       | O            | 10          | APR-20                  |
| 02      | 192CS25     | Network Security Laboratory                  | 2       | O            | 10          | APR-20                  |
| 02      | 192CS26     | Mini Project with Seminar                    | 2       | A+           | 9           | APR-20                  |
| 03      | 192CSE15    | Storage and Server Security                  | 3       | A            | 8           | NOV-20                  |
| 03      | 192OE01     | Business Analytics                           | 3       | B+           | 7           | NOV-20                  |
| 03      | 192CS31     | Project Work - Phase I                       | 10      | A            | 8           | NOV-20                  |
| 04      | 192CS41     | Project Phase - II                           | 16      | A+           | 9           | JUN-21                  |

Cumulative Credits Earned : 69

Cumulative Grade Point Average (CGPA) :

8.536

Classification : First Class With Distinction

Sivakasi - 626 140  
DATE : 20-SEP-2021

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| 01      | 192CS11     | Mathematical Foundations of Computer Science | 3       | B+           | 7           | DEC-19                  |
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| 01      | 192CS14     | Advanced Data Structures Laboratory          | 2       | O            | 10          | DEC-19                  |
| 01      | 192CS15     | Data Science Laboratory                      | 2       | O            | 10          | DEC-19                  |
| 02      | 192CS21     | Advanced Algorithms                          | 3       | A+           | 9           | APR-20                  |
| 02      | 192CS22     | Soft Computing                               | 3       | A+           | 9           | APR-20                  |
| 02      | 192CS23     | Ethical Hacking                              | 3       | A            | 8           | APR-20                  |
| 02      | 192CSE08    | Human and Computer Interaction               | 3       | O            | 10          | APR-20                  |
| 02      | 192AC02     | Disaster Management                          | MC      | A+           | 9           | APR-20                  |
| 02      | 192CS24     | Soft Computing Laboratory                    | 2       | O            | 10          | APR-20                  |
| 02      | 192CS25     | Network Security Laboratory                  | 2       | O            | 10          | APR-20                  |
| 02      | 192CS26     | Mini Project with Seminar                    | 2       | A+           | 9           | APR-20                  |
| 03      | 192CSE15    | Storage and Server Security                  | 3       | A            | 8           | NOV-20                  |
| 03      | 192OE01     | Business Analytics                           | 3       | B+           | 7           | NOV-20                  |
| 03      | 192CS31     | Project Work - Phase I                       | 10      | A            | 8           | NOV-20                  |
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| 01      | 192CSE03    | Block Chain and Cryptography                 | 3       | B+           | 7           | DEC-19                  |
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| 01      | 192CS15     | Data Science Laboratory                      | 2       | O            | 10          | DEC-19                  |
| 02      | 192CS21     | Advanced Algorithms                          | 3       | A+           | 9           | APR-20                  |
| 02      | 192CS22     | Soft Computing                               | 3       | A+           | 9           | APR-20                  |
| 02      | 192CS23     | Ethical Hacking                              | 3       | A            | 8           | APR-20                  |
| 02      | 192CSE08    | Human and Computer Interaction               | 3       | O            | 10          | APR-20                  |
| 02      | 192AC02     | Disaster Management                          | MC      | A+           | 9           | APR-20                  |
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# CLAMSYS CONSULTANCY SERVICES PRIVATE LIMITED

Address: 14-4/29, Narmadha River Street, Mahattma Gandhi Nagar, Madurai, TN 625014 IN

CIN: U74999TN2017PTC119466 | GST Registration Number: 33AAHCC2746D1Z1

05<sup>th</sup> March, 2019

## TRAINING CUM EXPERIENCE CERTIFICATE

This is to certify that Miss. Sheirly Twinkle, D/O Mr. Christopher Paulraj.G, student of CSE Department 2019 batch of PSR Engineering College & residing at #666, Kamaraj Nagar west, Manthithoppu Road, Kovilpatti, Tuticorin (Dt) has worked as a Trainee Engineer at Clamsys Consultancy Services Pvt. Ltd incubated in PSR Engineering College campus, Sivakasi from 16<sup>th</sup> August 2018 to 05<sup>th</sup> March 2019.

We found her responsible, enthusiastic and hardworking during her working tenure. She can prove to be an asset for any organization. We wish her success in her future.

For Clamsys Consultancy Services Private Limited

Twinkle Varatharajan  
Managing Director  
twinkle@clamsys.com

आयकर विभाग

INCOME TAX DEPARTMENT



सत्यमेव जयते

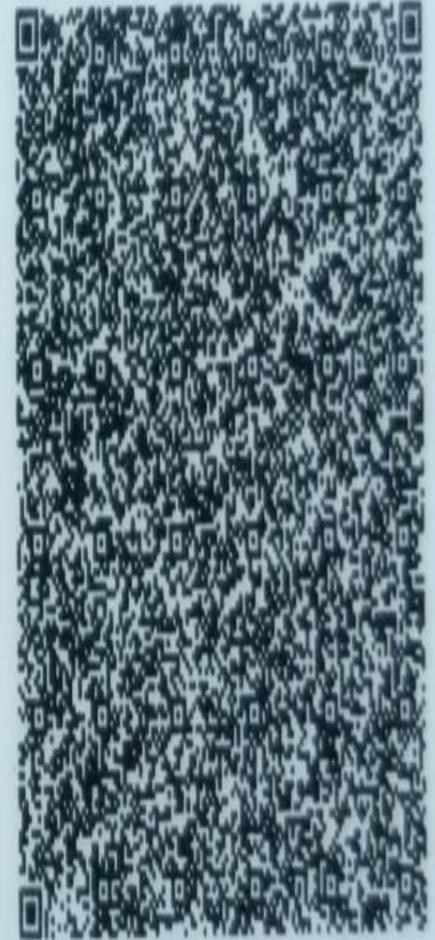
भारत सरकार

GOVT. OF INDIA

स्थायी लेखा संख्या कार्ड  
Permanent Account Number Card



**MLAPS3492M**



नाम / Name

**SHEIRLY TWINKLE**

पिता का नाम / Father's Name

**CHRISTOPHER**

जन्म की तारीख /  
Date of Birth

**11/05/1996**

हस्ताक्षर / Signature

14112019

**इस कार्ड के खोने/पाने पर कृपया सूचित करें/लौटाएं:**

आयकर पैन सेवा इकाई, एन एस डी एल  
चौथी मंजिल, मंत्री स्टर्लिंग,  
प्लॉट नं. 341, सर्वे नं. 997/8,  
मॉडल कालोनी, दीप बंगला चौक के पास,  
पुणे - 411 016.



***If this card is lost / someone's lost card is found,  
please inform / return to :***

Income Tax PAN Services Unit, NSDL  
4th Floor, Mantri Sterling,  
Plot No. 341, Survey No. 997/8,  
Model Colony, Near Deep Bungalow Chowk,  
Pune - 411 016.

Tel: 91-20-2721 8080, Fax: 91-20-2721 8081  
e-mail: [tininfo@nsdl.co.in](mailto:tininfo@nsdl.co.in)



सत्यमेव जयते

# India Driving Licence(Tamilnadu)

Form 7

DOI 31/03/2015

D.L.No : TN69Z20150001844

Name : SHEIRLY TWINKLE C

S/D/W of : CHRISTOPHER PAUL RAJ D G

Address :

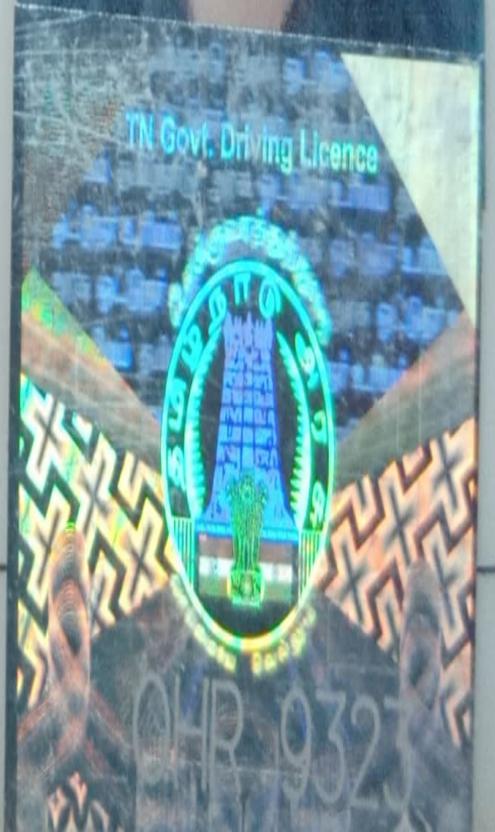
462 A/6 SASTHRINAGAR  
EBCOLONY AG GARDEN  
KOVILPATTI 628502

Temp.Add:

SRI AMMAN DRIVING SCHOOL

D.O.B. : 11/05/1996

B.G. : B+



Punishments:

Licensed to drive throughout India, vehicles of the following descriptions

M/CYCL. WOG 31/03/2015 TN69Z LMV 31/03/2015 TN69Z

Non-Transport Veh. Valid upto 30/03/2035



*E. Shyamsundar*

Signature/L. T.I  
of the Holder

*31/03/2015*

*31/03/15*  
Asst. Licensing Authority  
OFFICE, KOVILPATTI

R.Dis...../9 dt.

BC

சான்றிதழ் எண் :  
Certificate No

250/03

2249824

மாவட்டக் குறியீடு எண் :  
District Code

17

வட்டக் குறியீடு எண் :  
Taluk Code

03

கிராமக் குறியீடு எண் :  
Village Code

009

சாதிச் சான்றிதழ்  
COMMUNITY CERTIFICATE

விடுதிருநகர் மாவட்டம் சாத்தூர் வட்டம்

சாத்தூர்

கிராமம்/நகரம் திரு / திருமதி / செல்வி/

செல்வன் C. ஜெர்லி ட்விங்கிள் தகப்பனார்/

கணவர் பெயர் D. G. கிறிஸ்டோபர் பால்ராஜ்

கிறிஸ்தவ நாடார்

வகுப்பைச் சார்ந்தவர், அரசு ஆணை எண். 1564, சமூக நலத்துறை நாள்: 30-7-1985 வரிசை எண் 82 படி, பிற்பட்ட பிரிவினைச் சார்ந்தவர் எனச் சான்றளிக்கப்படுகிறது.

This is to certify that C. SHEIRLY TWINKLE Son / Daughter of Thiru D. G. CHRISTOPHER PAUL RAJ of SATTUR Village / Town, SATTUR Taluk, VIRUDHUNAGAR District of the State of Tamil Nadu belongs to CHRISTIAN NADAR Community, which is recognised as a Backward Class as per Government Order (Manuscript series) No. 1564, Social Welfare Department, dated 30th July 1985 vide Serial No. 82

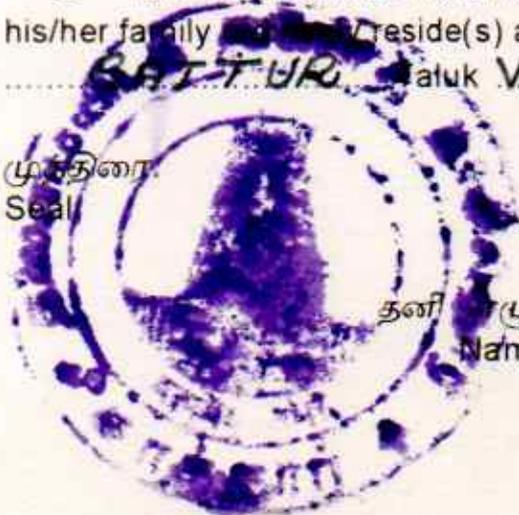
2. திரு / திருமதி / செல்வன் / செல்வி C. ஜெர்லி ட்விங்கிள்

என்பவரும் அவருடைய குடும்பத்தினரும் தமிழ்நாட்டில் விடுதிருநகர்

மாவட்டத்தில் சாத்தூர் வட்டத்தில் சாத்தூர்

கிராமத்தில் / நகரத்தில் வசித்து வருகிறார்கள் எனச் சான்றளிக்கப்படுகிறது.

2. It is certified that Thiru/Tmt/Selvan/Selvi C. SHEIRLY TWINKLE and his/her family reside(s) at SATTUR Village/Town SATTUR Taluk VIRUDHUNAGAR District of Tamil Nadu.

முத்திரை  
Sealகையொப்பம் :  
Signatureநாள் :  
Dateதனி முத்துக்களில் பெயர் :  
Name in Capital Lettersபதவிப் பெயர் :  
Designation

22-4-03  
மண்டல துணை வட்டாட்சியு.  
சாத்தூர்.



# C. SHEIRLY TWINKLE

## Android Developer

I am an energetic and committed individual seeking work as an Android Developer. I am keen to learn from and contribute to a creative and talented team, by doing so, I would like to gain knowledge and further develop my skills in the field of Application development.

## Contact

- +91 9994637363
- sherlechrisloo@gmail.com
- www.linkedin.com/in/sheirly-twinkle-1105cs711
- Kovilpatti, TamilNadu

## Education

- M.SC - Psy**  
Alagappa University | Pollachi  
06/2022  
GPA: 81
- M.E - CSE**  
P.S.R Engineering College | Sivakasi  
05/2021  
GPA: 85.36
- B.E - CSE**  
P.S.R Engineering College | Sivakasi  
05/2019  
GPA: 68.9
- DCSE**  
RVS Polytechnic College | Coimbatore  
05/2016  
GPA: 82
- XII - Mat/Bio**  
Counian Matric HSS | Kovilpatti  
05/2013  
GPA : 57.8
- X-Std**  
Counian Matric HSS | Kovilpatti  
05/2011  
GPA: 82.2

## Experience

- Android Mobile Application Developer**  
Fresa Technologies 11/2022 - 01/2023  
AEROTRANS TRACKING - APPLICATION / Dec, 2022 / Helps to track the shipment like HBL, MBL, container. PACE SPEDITION - APPLICATION / Nov, 2022 / Helps to track the shipment like HBL, MBL, Container. FRESA APP - MOBILE APPLICATION / Nov, 2022 / Helps to track the organization details.
- Sales Executive**  
Fresa Technologies 06/2022 - 10/2022  
Established and maintained positive relationships with vendors to determine product availability and quality.. Kept detailed records of daily activities through an online customer database.
- Business Analyst**  
Clamsys Consultancy Services 08/2018 - 04/2019  
Analyzed key aspects of business to evaluate factors driving results and summarized into presentations. Performed gap analysis to identify areas of improvement.

## Skills

- Organized Meeting deadlines Java/Kotlin Android SDK
- Teamwork Critical thinking UI/UX Design Oracle

## Certificates

- Complete JAVA Bootcamp : Go from zero to hero with spring
- CCNA Routing and Switching Level-1&2 from CNA
- Workshop in Basics of Ethical Hacking
- Android Application Development Certificate
- Python Application Development Certificate
- R Programming certificate

## Language

- English Tamil Hindi