

# RD SURIYA PRAKASH

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## EXECUTIVE SUMMARY

A highly proficient Full Stack Developer with expertise in API and Database Design, Development, and Backend Engineering. Skilled in Python and JavaScript, I specialize in backend development, responsive web design, and creating scalable, secure applications. My knowledge extends to encryption, decryption, and the MERN stack. With a strong focus on building efficient and robust systems, I am passionate about developing innovative solutions that enhance performance, security, and user experience.

## TOOL'S & TECHNOLOGY

### Programming Language

- Python
- Java Script

### Framework's & Libraries

- Flask
- Express.js
- React

### Design

- HTML
- CSS
- Bootstrap
- TailwindCSS
- Responsive Design

### Tool's

- Git
- Firebase
- Postman

### DataBase

- SQL
- SQLAlchemy
- MongoDB

### Additionally

- API Architecture Design
- Encryption & Decryption

## EDUCATION CREDIANTIAL

2018 - 2020 | HSC | SSLC

Saliar Mahajana Higher Secendary Scholl - ARUPPUKOTTAI

- HSC - 70%
- SSLS - 60%

2020 - 2024 | B.E - Computer Science Engineer

Karpagam Institute of Technology - COIMBATORE

- CGPA - 8.2

## ACHIEVEMENT CERTIFICATIONS

- Completed my career improvement through **Udemy** courses in **Python, Flask, TailwindCSS, MERN Stack**, and **SQL**, enhancing my skills in full-stack development and modern web technologies.
- Completed my **internship** at **Techjays** Company, where I learned about the **MERN stack**, achieving a **grade** of 'A'.

## PROFESSIONAL EXPERIENCE

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### Microgenn Software Solution

Support Software Engineer – September ( 2024 ) -Present

#### Role's and Responsibility

- Successfully led a team to deliver exceptional customer service and resolve client concerns with an efficiency rate of 80%.
- Developed and optimized SQL queries to support customer data analysis and improve service operations by 60%

### Agam Technology Service

Software Developer || MERN Stack Developer – December ( 2023 ) to August ( 2024 )

#### Role's and Responsibility

- Primarily focused on API development and integration, including implementing API encryption and ensuring end-to-end data security, with expertise in Postman for API testing.
- Developed an inventory management and billing system based on MERN stack technology, optimizing web performance with a 47% improvement and integrating it with WhatsApp.
- Successfully integrated public APIs and developed additional web solutions to enhance service functionality.
- Conducted comprehensive web testing and database connection testing to ensure performance and reliability, achieving a 70% success rate.
- Led the development of a team's live platform, which is company-based and includes features such as communication, meeting scheduling, day report tracking, work tracking, and notification management, improving work efficiency by 65%.

### Techjays

Software Engineer || Internship – May ( 2023 ) to July ( 2023 )

#### Role's and Responsibility

- Learned about the MERN stack during the internship period.
- Gained practical experience by working on front-end data retrieval.
- Focused on backend connections, data encryption, and API development.

## PROJECT

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### Data Security and Secure Transfer Protocols – Final Year Project

- Developed a chat application with secure data transfer between sender and receiver, focusing on how end-to-end encryption works. The project utilized encryption algorithms such as AES, DES, and Triple-DES, with additional encryption rounds (2–3 extra rounds) to ensure stronger security.
- The project was developed using the React library for the frontend, and Flask for the backend, with Python as the programming language. Axios was used for API communication to get and post data.
- The encryption techniques were implemented to prevent any cipher attacks, and the application underwent live testing, achieving a security level of 68%. Testing included Metropolitan, White Box, and Black Box testing methodologies.

## **RESPONSIBILITIES**

- Developed APIs with encrypted data transfer, ensuring that no data or encryption keys were lost.
- Programmed in Python, implementing encryption algorithms like AES and DES, adding 4 additional encryption rounds, improving accuracy to 82%.
- Developed a live communication application using WebSocket technology.
- Implemented device verification for secure logins with end-to-end encryption, ensuring unauthorized logins were prevented.