

# SAISUNIL SRIDHARAN

Engineer | Expertise in PKI, IAM, Cyber Security, R&D.

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## Professional Summary

Software Engineer with over 3.8 years of experience specializing in Public Key Infrastructure (PKI), Identity and Access Management (IAM), and Cyber Security. Proven track record in full lifecycle development, from system design to product delivery, using Java, Spring Boot, and Microservices. Expertise in upgrading legacy systems (Java 8 to 17/21) and implementing cryptographic protocols (OAuth 2.0, X.509).

## Technical Skills

AI Agents and Tools: Antigravity, Gemini CLI, Claude CLI, n8n, MCP, RAG, SLM.

Programming Language: Java (8, 17, 21), Python, JavaScript.

Framework: Spring Boot, Spring AI, Angular, JavaFX, Hibernate.

Security & IAM: PKI, OAuth 2.0, OIDC, JWT, LDAP, SSL/X.509, HSM, OpenSSL, Post-Quantum Cryptography (PQC).

Cloud & DevOps: Azure (DevOps [CI/CD, IaC], IAM), AWS (EC2, S3), ELK Stack.

Databases: PostgreSQL, MySQL, Oracle 21c, Redis.

Protocols & Standards: REST API, SOAP, XML, JSON, CBOR, WSDL.

Architectural pattern: MVC [JSP, J2EE], Microservices [API (Rest API, SOAP)].

Build and Tools: Maven, Gradle, Docker, Tomcat, Netty, Nginx.

## Soft Skills

Teamwork, Problem Solving, Debugging, Critical Thinking and Communication.

## Area of Interest

Research and Development Software Development, Cyber Security, Blockchain, Project Management.

## Experience

Emudhra, Bangalore

[ 3 - year 8 months] June 2022 – Feb 2026

Software Engineer

- Developing PKIaaS solutions, Digital Signatures, and Identity Management Systems for a licensed Certifying Authority (CA) serving government and private sectors.
- Managed full SDLC for multiple applications, ensuring successful system design and product delivery.
- Product worked: CA (Private CA), TSA, OCSP, NPKD, SPOC, TCC, V2X Security (CERT), mDL.

## Education

Bachelor of Engineering Computer Science and Engineering.

Aug 2018 - April 2021

Ganadipathy Tulsi's Jain Engineering College Affiliated to Anna University, Vellore 632058.

Diploma in Engineering Computer Engineering.

June 2015 - April 2018

Sri Venkateswara Polytechnic College Vellore. Affiliated to the Department of Technical Education, Government of Tamil Nadu, Vellore 632058.

## Key Product and Projects

### eMCP (emudhra Model Context Protocol)

Engineered the eMCP application using Java 21, Spring Boot, and Spring AI to establish a Model Context Protocol for intelligent data communication.

### mDL (mobile driver license)

Built a digital identification solution using Java 21, Spring Boot, and Angular 17.

Implemented CBOR, JSON, and XML serialization to optimize system interoperability.

### emCA (Private CA & PKIaaS):

Led the migration from JDK 8 to JDK 17 to JDK 21 and integrated Single Sign-On (SSO) using SAML and LDAP, accounting for 60% of code changes.

Enhanced infrastructure robustness by implementing OCSP, timestamping, and extensive protocol support.

### nPKD (National Public Key Directory)

Developed the NPKD to interface with ICAO PKD, enabling secure exchange of ePassport authentication data via LDAP.

Implemented schedulers for automated maintenance of certificates, CRLs, and Master Lists in adherence to ICAO standards.

### SecurePass (identity management system) (IAM)

Spearheaded the migration from Java 8 to Java 17, restructuring security protocols to fortify system architecture.

### Speech to Scenario Simulation Using NLP And Deep Learning

Designed a voice-to-simulation generator using Python 3, Pytorch, TensorFlow, and NLP to translate vocal inputs into dynamic visual simulations for educational research.

## Certificate and Courses

### Atlassian Agile Project Management Professional Certificate

Certification issued by LinkedIn and Atlassian.

### LFD121: Developing Secure Software

Certification issued by The Linux Foundation.

### ISO/IEC 42001:2023 - Artificial Intelligence Management System (AIMS)

Certificate issued by Alison.

### CompTIA Security+

Certificate issued by cybrary.it.