Sharan S C

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EDUCATION

Bachelor Of Engineering: The Oxford College of Engineering, Bangalore 9.25 CGPA | 2023 – 2027

SKILL SUMMARY

Programming Languages: Java, C, C++, JavaScript

Frameworks & Libraries: Spring Boot, React

Cloud Computing: AWS EC2, S3, RDS, IAM, Lambda, Fargate

Databases: MySQL, MongoDB, PostgreSql

Tools & Platforms: Maven, Git, Postman, Docker, Kubernetes

Messaging & Streaming: Apache Kafka, WebSockets

EXPERIENCE

Software Development Intern | INTELAIX NOV 2025 – JAN 2026

Worked on backend systems for scalable web push notifications and event-driven communication

- Built backend services using **Java Spring Boot** and **Apache Kafka** for asynchronous notification processing
- Designed REST APIs to manage **Firebase Cloud Messaging (FCM)** tokens and notification delivery
- Implemented **Kafka** consumers to trigger real-time push notifications based on system events
- Assisted in **deploying** and running services on **GCP Compute Engine** virtual machines

PROJECTS

Sentinel – Reimbursement Fraud Detection System | Microservice Architecture | GitHub | LIVE
Java, Spring Boot, OCR(tesseract), PostgreSQL, REST APIs, Docker, Kubernetes (Minikube)

- Designed two Spring Boot microservices: **Reimbursement Request Service** and **Employee Policy Management Service**, enabling clean separation of claim processing and policy enforcement, **deployed** and validated on a local **Kubernetes (Minikube)** cluster with a live **AWS EC2** demo deployment
- **Implemented an end-to-end reimbursement workflow** handling JSON + receipt image uploads, **integrating Tesseract OCR and AI-extraction** to validate receipt data against submitted claim details and manage request lifecycle states
- Built a **fraud detection engine** combining rule-based checks, historical analysis, **perceptual image hashing (pHash)**, and **text hash similarity** to identify duplicate or manipulated receipts
- Enforced **policy-limit validation** and historical spending checks, generating fraud scores and categorizing claims into LOW, MEDIUM, HIGH, and CONFIRMED fraud levels

Stature - AI-Powered Resume Builder | Microservices Architecture | GitHub | LIVE
Java, Spring Boot, Spring Cloud, Google Gemini AI, Apache POI, Eureka, API Gateway, Maven

- **Architected a Spring Cloud–based microservices system** using Eureka and API Gateway, integrating **Google Gemini AI** to optimize resume content for ATS compatibility with **90%+ parsing success**
- Implemented **Apache POI** to generate fully editable Microsoft Word (.docx) documents with professional formatting
- Developed RESTful APIs for resume creation, AI optimization, and document generation with inter-service communication
- Configured load balancing, fault tolerance, and distributed architecture patterns with MongoDB for data persistence

ACHIEVEMENTS & PUBLICATIONS

- Solved **800+** problems on LeetCode, achieving a maximum contest rating of **1732** through consistent competitive programming participation
- Published research paper "FBG Sensor Design and Analysis for Early Detection of Cancer" as First Author in **IEEE** Xplore (2024)