

# Suryansh Jain

Github Portfolio LinkedIn Leetcode

Mobile: 7574922552

Email: suryanshjain531@gmail.com

## SUMMARY

**Software Engineer** with **4 years** of experience building and deploying robust, scalable backend services from concept to production. Proficient with **Python** (FastAPI, Flask), **SQL and NoSQL** databases, and modern DevOps tools, including CI/CD pipelines, **Docker** for containerization and **AWS** for cloud infrastructure. Adept at taking full project ownership and collaborating with cross-functional teams in Agile environments to deliver high-quality, reliable solutions.

## EXPERIENCE

- Samsung Research Institute** Delhi  
Software Engineer June 2022 - Present
  - Automated Tizen Certification Engine:** Developed a Python (FastAPI) backend with RESTful APIs to orchestrate asynchronous validation jobs running in isolated Docker containers, using MySQL for state management. This solution reduced the certification time by **80% across 450+ tizen applications**.
  - RAG Pipeline for Semantic Search:** Engineered a RAG pipeline with a FAISS vector index to unify Tizen Developer Forum and internal databases, delivering a **50% faster search** experience with significantly higher contextual accuracy than existing keyword-based methods.
  - Event-Driven Notification Service:** Architected an event-driven, real-time notification service using Python (Flask) and WebSocket architecture, which **doubled QA platform adoption** by delivering instant alerts on test failures.
  - Tizen App Store Management Platform:** Developed a high-reliability backend to power the global Tizen App Store, implementing a comprehensive Role-Based Access Control (RBAC) system. The platform led to a **40% improvement** in app management and distribution efficiency.
  - Tizen OS Upgrade Readiness (Samsung HQ):** Defined the technical modifications for the Tizen certification platform to support Tizen OS upgrade by translating QA requirements into a detailed development plan, ensuring a seamless transition during a **6-week project at Samsung HQ** in South Korea
  - Partner Engineering:** Orchestrated the end-to-end technical integration for **10+ Tizen partners** like Disney+ and HBO, engineering key solutions including deeplink functionality for JioHotstar and hosted app deployment for Tata Play.
  - Samsung Spot Award:** Received **twice** in recognition of impactful development and process optimization.
- Standard Chartered Bank** Bangalore  
Developer Aug 2021 - May 2022
  - Blockchain Platform Development:** Developed a suite of smart contracts with Solidity for a blockchain-on-demand tool, reducing the average developer **time-to-first-test by over 80%**. The template contracts showcased core capabilities like asset transfers and connection management, significantly accelerating user onboarding.
  - Off-Chain Event Simulator:** Implemented an event-driven error simulation module to test responses to on-chain failures. The system published off-chain events to trigger on-chain response, **boosting test coverage by 10%**.
  - Python Tooling for Blockchain Development:** Built and distributed an installable Python package that simplified common blockchain interactions for the development team, **cutting time on recurring tasks by 20%**.
  - Standard Chartered "Best Project" Award:** Top project out of a field of 12 teams at the 2021 Developer Bootcamp.

## SKILLS

- Programming Languages** Python, JavaScript, SQL, Typescript, Java, Solidity
- Backend Frameworks** Flask, FastAPI, Django, Node.js,
- Database** MySQL, MongoDB, PostgreSQL
- DevOps** AWS, Docker, Kubernetes, Git, Linux
- Frontend Libraries** ReactJS, NextJS, Tailwind CSS
- Data & Event Processing** Redis, Kafka, Elasticsearch, RESTful APIs
- Soft Skills** Operational Efficiency, Process Optimization, Collaboration

## EDUCATION

- Bachelor of Technology - VIT University** Vellore, India  
Electronics and Communication Engineering; **GPA: 8.96** July 2017 - June 2021
  - Value Added Program:** Introduction to Software Engineering
  - Relevant Coursework:** Data Structures and Algorithms, System Design, Object Oriented Programming, Databases
  - Publication:** Music Information Retrieval and Classification using Deep Learning Publication

## PROJECTS

- Plug-and-Play RAG System:** Architected an open-source, production-ready RAG platform to allow developers to rapidly build and deploy custom Q&A systems. The FastAPI backend, containerized with Docker, supports streaming responses from LLMs like Gemini and connects to enterprise databases (PostgreSQL, MongoDB). Github