# Suryansh Jain

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Github   Portfolio   LinkedIn   Leetcode

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## 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 (Flask) 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**: Engineered 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**: Engineered 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

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| **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**: Developed 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