

Suryansh Jain

[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 (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

- Standard

Bangalore
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

• Bachelor of Technology VII University
• 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