

# Suryansh Jain

[Github](#) [Portfolio](#) [LinkedIn](#) [Leetcode](#)

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## Summary

Software Engineer with **4 years** of hands-on experience building and deploying robust, scalable **fullstack** solutions from concept to production. Proficient in **Python (FastAPI, Flask)**, **SQL**, and **NoSQL** databases, **ReactJS**, 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.

## Experience

- **Samsung Research Institute** Noida, India  
Software Engineer June 2022 - Present
  - **Architected Fault-Tolerant Async Job Engine:** Designed a distributed task processing system using **Celery** and **Redis**. Solved critical reliability issues by implementing **idempotent workers**, exponential backoff strategies, and automated retries, reducing job failure rates by **95%**.
  - **Led Certification Engine Migration (Onsite @ HQ):** Architected the backend upgrade of the **Tizen Certification Engine** during a critical mission at Samsung HQ, ensuring **zero-day compatibility** for Tizen OS Upgrade.
  - **Engineered Low-Latency GenAI Search Service (RAG):** Architected the backend using **FastAPI** and **FAISS** to enable **semantic search**, reducing Time-to-First-Token (TTFT) by **50%**. Developed a **ReactJS chat interface** to render streaming responses, enable context selection (docs, Q&A), and manage user chat history.
  - **Developed Tizen Lifecycle Management Platform:** Built a **Flask** and **PostgreSQL** backend to orchestrate complex multi-step certification workflows. Implemented **Role-Based Access Control (RBAC)** and atomic transaction rollbacks to ensure data integrity, reducing manual management overhead by **40%**.
  - **Modernized CI/CD Infrastructure:** Migrated manual deployments to a fully automated **GitHub Actions** pipeline. Standardized Docker builds for on-premise infrastructure, slashing deployment times by **60%**.
  - **Awards & Recognition:** Received **Samsung Spot Award (2x)** for delivering high-quality, reliable solutions and driving operational efficiency in agile environments.
- **Standard Chartered Bank** Bangalore, India  
Developer Aug 2021 - May 2022
  - **Architected Blockchain-Backend Bridge:** Integrated Solidity smart contracts into a **Python (Flask)** backend. Automated the contract interaction layer, reducing average developer **time-to-first-test** by **80%**.
  - **Built Distributed Error Simulation Module:** Developed a resilience testing framework that published mock failure events to a **Redis event bus**. This enabled off-chain service validation and increased test coverage by **10%**.
  - **Developed Internal Developer Tooling (Python SDK):** Built and distributed an installable Python library to abstract complex blockchain interactions. Simplified recurring development tasks, reducing setup time by **20%**.

## Skills

- **Languages** Python, SQL, JavaScript, TypeScript, Solidity, Java
- **Backend Engineering** FastAPI, Flask, Django, Node.js, Celery, AsyncIO, RESTful APIs
- **Data & Messaging** PostgreSQL, Redis, Kafka, MongoDB, Elasticsearch, FAISS
- **Cloud Infrastructure** AWS, Docker, Kubernetes, GitHub Actions, Linux, Nginx
- **System Design** Microservices, Event-Driven Architecture, RAG, Scalability, CI/CD
- **Web & Tools** ReactJS, NextJS, Git, PyTest, Tailwind CSS

## Certifications

- **AWS Certified Solutions Architect – Associate (SAA-C03)** [Credly](#) Nov 2025

## Education

- Vellore Institute Of Technology** Vellore, India
- **Bachelor of Technology** in Electronics and Communication Engineering July 2017 - June 2021
- Publication: Music Information Retrieval and Classification using Deep Learning [Link](#) CGPA: 8.96 / 10.0

## Projects

- **Cognilink** 2024
  - Architected an open-source RAG toolkit enabling developers to rapidly build and deploy custom Q&A systems.
  - Engineered a containerized **FastAPI** and **FAISS** core with modular adapters for seamless database integration. [Github](#)