

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 **backend** systems 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
 - Developed a **distributed, high-availability** backend service (Python, Celery, Redis) for asynchronous workloads, cutting **job failures by 95%** through a fault-tolerant design with idempotent workers and automated retries.
 - Engineered a **conversational search service** with Python (FastAPI). Utilized FAISS for vectorizing knowledge bases and integrated an LLM for generating streaming answers, **slashing query latency by 50%**.
 - Addressed key feature gap by architecting an **event-driven notification** microservice (Python, FastAPI). Implemented feature to push real-time updates, resulting in a **2x increase** in platform adoption.
 - Developed backend service for Tizen app lifecycle platform (Python, Flask, PostgreSQL) to automate multi-step app certification workflows, integrating granular RBAC and automated rollbacks to **cut management overhead by 40%**.
 - Scaled the team's technical capabilities by **mentoring** new-hires and junior engineers on system architecture and code standards, directly contributing to a **25% reduction** in PR revision request.
 - Architected service-level logic and API changes for Tizen certification engine, enabling support for **Tizen OS upgrade**; delivered technical solution **onsite at Samsung HQ** during a 6-week project ensuring **zero-day compatibility**.
 - Resolved complex **API integration challenges** for 10+ media partners (Disney+, HBO), providing expert-level backend solutioning for features like deeplinking to accelerate time-to-market for partner apps on Tizen platform.
 - Implemented a CI/CD pipeline using **Github Actions** to fully automate the build, test, and deployment of backend services to on-premise infrastructure, **slashing deployment time by 60%**.
 - Received **Samsung Spot Award (2x)** for delivering high-quality, reliable solutions and driving operational efficiency through process optimization.
- Standard Chartered Bank** Bangalore
Developer Aug 2021 - May 2022
 - Developed an **error simulation module** to validate off-chain service responses, publishing mock on-chain failure events to the platform's event bus (Redis) to **increase test coverage by 10%**.
 - Integrated a suite of Solidity smart contracts into a Python (Flask) backend for a blockchain-on-demand platform, cutting average developer **time-to-first-test by 80%**.
 - Built and distributed an **installable Python package** to abstract and simplify common blockchain interactions, cutting time spent on recurring **development tasks by 20%**.

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** July 2017 - June 2021
- Vellore Institute Of Technology Vellore, India
Electronics and Communication Engineering GPA: 8.96
 - 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

- Cognilink** - Built an open-source RAG platform to allow developers to rapidly build and deploy custom Q&A systems. The FastAPI backend, featuring a FAISS (all-MiniLM) vector store, containerized with Docker, supports streaming responses from LLMs like Gemini and connects seamlessly with databases (PostgreSQL, MongoDB). Github