

# Suryansh Jain

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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 with **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 to deliver high-quality, reliable solutions.

EXPERIENCE

Samsung Research Institute

Nojda

## • Samsung Research

June 2022 - Present

- Engineered a **conversational search service** with Python (FastAPI). Utilized FAISS for vectorizing knowledge bases and integrated an LLM for generating streaming answers. Developed a **chat interface** with **React** to render asynchronous responses and manage user chat history **slashing time-to-first-token by 50%**.
  - 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.
  - 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%**.
  - Engineered the React-based management console for the Tizen App lifecycle platform, consuming and **enforcing API-driven RBAC policies** into a dynamic frontend that **conditionally rendered all views and controls**.
  - 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-chair 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

- |                                      |   |
|--------------------------------------|---|
| • <b>Programming Languages</b>       | Python, JavaScript, SQL, Typescript, Java, Solidity         |
| • <b>Backend Frameworks</b>          | FastAPI, Flask, Django, Node.js,                            |
| • <b>Database</b>                    | MySQL, MongoDB, PostgreSQL                                  |
| • <b>DevOps</b>                      | AWS, Docker, Kubernetes, Git, Linux                         |
| • <b>Frontend Libraries</b>          | ReactJS, NextJS, Tailwind CSS                               |
| • <b>Data &amp; Event Processing</b> | Redis, Kafka, Elasticsearch, RESTful APIs                   |
| • <b>Soft Skills</b>                 | 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

- **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