Sanjana Satheesh

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GitHub | LinkedIn | Portfolio

Professional Summary

Software Engineer with hands-on experience in Python, C++, and backend API development. Fast learner with the ability to adapt to new technologies and contribute effectively in team-driven projects.

Work Experience

Sept 2024 – Sept 2025
Fidelity Investments, Chennai
Data Engineering Apprentice

PROJECT: *Centralized Power BI Dashboard for Database Operations*
RESPONSIBILITIES:
- *Built centralized dashboard in **Power BI** for monitoring Jira intakes, server status, and DBA activities.*
- *Connected to **Snowflake** using SQL queries and automated **Azure Portal** data pulls with HTTP calls.*
- *Collaborated with DBA team to convert manual tracking into real-time dashboards.*

PROJECT: *UDeploy Pipeline Migration to Jenkins*
RESPONSIBILITIES:
- *Migrated pipelines to **Jenkins**, creating automation scripts in **Bash** and maintaining repo on **GitHub**.*
Enhanced CI/CD reliability and created documentation for team onboarding.

DESCRIPTION: *Worked as DBA with team responsible for managing and supporting databases across on-prem and cloud environments, ensuring performance, availability, and operational efficiency.*
RESPONSIBILITIES:
- *Managed access controls, database patching, and Azure rehydration tasks.*

Education

B.Tech in Electronics & Communication Engineering   **Aug 2019-Aug 2023**
College of Engineering, Chengannur (APJ Abdul Kalam Technological University)

Higher Secondary & High School
Toc H Public School, Kochi, Kerala (CBSE)

Projects

Clickstream Analytics Pipeline (Kafka + FastAPI + PostgreSQL+ Grafana)
- *Built REST API endpoints using FastAPI for collecting and exposing clickstream event metrics.*
- *Designed a Kafka Producer–Consumer system for real-time event ingestion.*
- *Integrated PostgreSQL and built observability via Prometheus + Grafana.*
- *Containerized via Docker Compose for full-stack automation.*

Merchant Payment Integration API (Java, Spring Boot, MySQL, REST API, Swagger)
- *Implemented REST APIs for transactions, refunds, and settlements.*
- *Added Swagger documentation + clean layered architecture.*

Concurrent Chat Room (C++, TCP/IP, Multithreading)
- *Developed a multi-client chat system with socket programming and concurrency handling.*
- *Managed client-state handling, message routing, and thread synchronization.*

Library Management System (C++, STL)
- *Developed a command-line system using STL containers and algorithms for CRUD operations.*

Technical Skills

Languages	*: C, C++, SQL, Python*
Backend	*: FastAPI, RestAPI*
Databases	*: PostgreSQL, MySQL*
Cloud/Tools	*: Azure, Jenkins, Git/GitHub, Docker*
Data/Analytics	*: Power BI, Grafana, Prometheus*

Training & Certifications

- [Vector Institute – Embedded Systems Training](#) *(2023 – 2024): C, C++, ARM7, Protocols, Linux OS*
- [OCI AI Foundations Associate](#)
- [Oracle AI Vector Search Certified Professional](#)
- [Microsoft Azure Data Fundamentals DP-900 Exam Prep](#)
- [Software Engineering Essentials by IBM](#)

Workshops

Flutter App Development Workshop – IEDC Centre, SJCET Palai