SJ Arulprasaad

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Summary

Software Engineer with strong skills in automation, scalable systems, and deployment pipelines. Experienced in workflow automation, CI/CD, and full-stack development. Solid academic foundation (CGPA 9.43) with proven ability to design, test, and optimize systems.

Core Skills

Languages: Python, SQL, JavaScript (React), C, C++, Java, HTML, CSS
Automation/Backend: FastAPI, Flask, REST APIs, Docker, GitHub Actions, Airflow
Databases: PostgreSQL, MySQL
Tools: Git, Linux, NumPy, Pandas, OpenCV

Professional Experience

Quantum-Inspired Anomaly Detection Internship   scikit-learn, NumPy
Summer Research Internship under VITC University

- Enabled real-time anomaly monitoring with sliding window ingestion (30M+ rows).

Projects

Workflow Automation for Data Pipelines   Python, Airflow, Docker
Automation

- Developed automated ETL workflows for real-time data ingestion and validation.

- Deployed containerized pipelines, improving scalability and reducing manual effort.

CI/CD Pipeline Automation   GitHub Actions, Docker, FastAPI
DevOps

- Built automated build-test-deploy pipelines using GitHub Actions.

- Reduced deployment time with containerized microservices.

End-to-End Web Application   React, FastAPI, PostgreSQL
Full Stack

- Built a full-stack app with React frontend and FastAPI backend.

- Automated user authentication and database operations with CI/CD integration.

Education

B.Tech in Computer Science and Engineering (AI/ML) — VIT Chennai   Aug 2023 – May 2027
CGPA: 9.43 / 10
Maharishi Vidya Mandir Senior Secondary School (Class 12)   May 2023
Score: 94.5%

Achievements

- Secured **Rank 1** in AI & ML specialization (CSE) for Semester 1 at VIT Chennai
- Ranked among top 15 teams in Data Mission Impossible Workshop on Kaggle