Gauthum J

Systems Engineer | Logistics Tech

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SUMMARY

Versatile Supply Chain & Systems Engineer with a proven aptitude for rapidly mastering new technologies and navigating complex technical landscapes. Specialized in **Retail Logistics** and **Warehouse Management Systems (WMS)**, with a track record at **Sainsbury's** (TCS) of optimizing inventory flow for **100,000+ SKUs** and automating critical operations to save 200+ weekly man-hours. Expert in bridging the gap between logistics operations and engineering using **SQL, Python, and Körber WMS**, while continuously expanding expertise in **Fleet Telematics** and **CI/CD**. An agile problem-solver dedicated to delivering scalable solutions in fast-paced, evolving environments.

TECHNICAL SKILLS

- **Logistics & Domain:** Warehouse Management Systems (Körber WMS), Inventory Automation, Fleet Management, Route Optimization, Supply Chain Visibility.
- **Languages & Scripting:** SQL (Advanced), Python (Advanced), PowerShell, C++, JavaScript.
- **Backend & Cloud:** AWS (Lambda, API Gateway), Firebase, Django, Flask, Docker.
- **Frontend & Mobile:** ReactJS, Flutter, React Native, NextJS.
- **DevOps & Tools:** GitHub Actions, CI/CD, Selenium, TensorFlow, MongoDB.

EXPERIENCE

Systems Engineer
TCS - Sainsbury's   **June 2023 - Present, Chennai, India**

- Engineered automated inventory workflows using **SQL** and **PowerShell**, eliminating **200+ hours of manual effort weekly** and executing a migration of **100,000+ records** with **0% failure rate** and zero business disruption.
- Optimized Warehouse Management System (WMS) core logic and features, streamlining workflows to improve end-user operational efficiency by **~20%**.
- Partnered with cross-functional teams to troubleshoot and resolve critical system bottlenecks, maintaining **99.9%** uptime and ensuring business continuity.
- Orchestrated CI/CD pipelines via **GitHub Actions** to automate packaging and deployment, reducing weekly release overhead and eliminating manual errors across Non-Prod and Prod environments.

Software Engineering Intern
Unipe   **May 2022 - July 2022, Bangalore, India**

- Built 10+ AWS Lambda functions and API Gateways, **reducing backend response time by 30%**.
- Scraped and automated minimum wage data extraction for 28 Indian states using Python, eliminating manual entry.
- Designed ReactJS interfaces that **improved user engagement by 25%.**

Software Research and Development Intern
D3View   **March 2021 - July 2021, Detroit, USA**

- **Automated 30+ test cases** with Selenium and Python, cutting QA time from 30 to 3 minutes per test.
- Refactored testing scripts into reusable modules, improving framework scalability and **reducing maintenance effort by 40%.**

PROJECTS

Spry - Intelligent Fleet Management
Mercedes-Benz Research & Development India • Github • February 2022 - March 2022

- **Developed a fleet management application** designed to track buses in a fleet, focusing on both service providers and consumers, with a multi-faceted admin and consumer console for mobile.
- Designed and implemented a **route recommendation system** that helps users choose the best course to reach their destination based on bus capacity, location, and availability.
- Developed the application to support 50+ **bus routes in Bangalore**, focusing on the consumer experience and operational efficiency.
- Built as part of a **hackathon**, where the project placed in the **top 10**, demonstrating the ability to develop a complex, scalable solution.

Real-Time Logistics & Transit Tracker
Vellore Institute of Technology • Github • March 2021 - May 2021

- **Developed the backend** for a real-time bus tracking app designed to help students track the location of their college bus, impacting **up to 10,000 students**.
- Set up the **real-time database using Firebase**, enabling seamless synchronization and accurate bus location updates for **30+ buses** in real time.
- Established a **real-time connection** between Firebase and the Flutter frontend, ensuring location updates with minimal delay (1–2 seconds), improving the user experience.
- Designed and implemented the backend architecture, optimizing data flow to handle dynamic updates for large numbers of users simultaneously.

EDUCATION

Bachelor of Technology
Vellore Institute of Technology • Chennai • 2023 • 8.1

CERTIFICATIONS

Google Cloud Fundamentals
Coursera • 2022

Machine Learning
Stanford online • 2020

AI for Everyone
Deeplearning.ai • 2020

Certification In Python Programming
Rice University• 2019