Mukeshwaran B

mukeshwaran375@gmail.com | 9003352090 | linkedin.com/in/mukesh-waran-b-491b59251

Objective

technologist with expertise in Full Stack Development (Django, React), Data Engineering (PySpark, Snowflake), and Frontend Development (React.js, Three.js). Proven ability to design scalable web applications, optimize data pipelines, and build immersive user interfaces. Passionate about leveraging cloud technologies (AWS, Docker) and data-driven solutions to deliver high-performance systems.

Skills

Frontend Development: React.js, TypeScript, JavaScript (ES6+), HTML5/CSS3, Three.js, WebGL.

Backend and Data Engineering: Python, Django, PySpark, SQL, ORMs (MySQL), ETL Pipelines

Cloud and DevOps: AWS (Lambda, EC2, Kinesis), Docker, Kubernetes, CI/CD (GitHub Actions), Snowflake,

Data and Analytics: Tableau, Power BI, SAP BO, Data Modeling (Star Schema), Real-Time Streaming (Kinesis)

Tools Concepts: Git/GitHub, RESTful APIs, Agile Development, Data Quality Validation, IoT Integration

Education

Sathyabama University | BE in Electronics and Communication Engineering June 2021 – April 2025

- GPA: 8.23/10.0
- **Coursework:** Embedded Systems, Data Structures, Algorithms, Operating Systems, Wireless Communication, Cloud Computing, Database Systems

Experience

Embedded Software Intern – Campalin June 2023 – Jan 2024

- Developed firmware for a resource-constrained IoT device using STM32 and FreeRTOS.
- Debugged hardware-software integration issues using JTAG and logic analyzers.

Data Analyst Intern | Multiware, India Feb 2024 – July 2024

- Analyzed supply chain data using Tableau and SQL, improving inventory efficiency by 20
- Automated reports using Python scripts, saving 10+ hours/week.

Projects

Real-Time Sensor Data Acquisition System | Embedded C, STM32

- Developed firmware for processing real-time sensor data on STM32 MCUs, reducing latency by 15 percent.
- Implemented I2C/SPI protocols for communication between sensors and microcontroller.

Full-Stack E-Commerce Platform | Django, React, PostgreSQL, Python, AWS
- Designed RESTful APIs with Django REST Framework and deployed on AWS.
- Implemented user authentication, payment integration, and product catalog.

IoT Sensor Dashboard | React.js, Chart.js
- Developed a real-time visualization tool for IoT data with responsive UI/UX.

Multimedia Streaming App | Android NDK, WebRTC

- Built a low-latency audio streaming app using Android NDK (C++) and WebRTC.
- Optimized buffer management to improve throughput by 20 percent.

Certifications

- AWS Certified Cloud Practitioner
- Linux Kernel Programming (Udemy)