

Azharuddin Alam

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EXPERIENCE

Foretech Engineering Solution Pvt. Ltd. – India | Software Engineer – IoT & Cloud Telemetry Jan 2025- Present

- **Tech stacks used:** AWS Cloud (IoT Core, Lambda), Azure IoT Hub, MySQL, Power BI, MQTT, Python, Postman
- Designed and deployed real-time telemetry pipelines for industrial IoT systems using Azure IoT Hub and AWS IoT Core, enabling secure data transmission from PLCs with 99.9% uptime.
- Integrated industrial controllers (e.g., Modicon TM262M) with MQTT, improving remote monitoring efficiency by 40%.
- Automated SAS token renewal for Azure IoT Hub, reducing manual intervention by 100% and improving device connectivity reliability.
- Built custom Lambda & Azure Functions for telemetry filtering and routing, reducing data processing time by 35% and enabling scalable analytics.

PROJECTS

Real-Time PLC Telemetry Dashboard using AWS IoT & Power BI FEB 2025 – Mar 2025

- Engineered an end-to-end real-time PLC-to-cloud data pipeline, reducing latency from 10s to under 3s for telemetry visualization.
- Integrated PLC with MQTT to securely publish voltage, current, RPM, and temperature, ensuring 99% accurate data ingestion.
- Implemented AWS IoT Rules and DynamoDB for storage and Lambda for downstream processing, enabling real-time anomaly detection.
- Designed Power BI dashboards with time-based filters (hourly, daily, monthly), improving decision-making speed by 25%.

Extruder Machine Monitoring Dashboard – Real-Time Industrial Analytics Apr 2025 – Jul 2025

- Developed a real-time monitoring dashboard for extruder machines, improving maintenance response time by 30%.
- Visualized KPIs such as production (km), energy usage (kWh), material consumption, and downtime, driving 15% efficiency gains.
- Implemented predictive analytics on machine health to reduce unplanned downtime by 20%.

SKILLS

- **Database & Querying:** SQL, DBMS, MySQL
- **Data Visualization & Analytics:** Power BI, DAX, Excel, Matplotlib, Seaborn
- **PROGRAMMING & LIBRARIES:** Python, Pandas, NumPy, Scikit-learn, OpenCV, Machine Learning, Feature Engineering, Data Preprocessing
- **Frameworks & APIs:** Flask, FastAPI
- **Version Control & Tools:** Git, GitHub, Postman, VS Code
- **Web & Cloud Technologies:** HTML, CSS, JavaScript, AWS Cloud, Azure Cloud
- **IoT & Cloud Integration:** MQTT, HTTP, PLC-to-AWS Data Pipeline, AWS IoT Core, AWS DynamoDB, IoT Protocols

EDUCATION

Greater Noida Institute of Technology

Bachelor of Technology , Computer Science and Engineering – 7.57 CGPA

Greater Noida, India

Sep 2020 – May 2024

- Coursework: *Operating Systems, Database Management Systems (DBMS), Computer Networks, Algorithms, Data Structures, Machine Learning, Software Development Lifecycle (SDLC), Data Analytics.*

CERTIFICATIONS

- Data Analytics Course Certificate – PhysicsWallah, Jan 2025.
- SQL Beginner to Advanced For Data Professionals – Codebasics, Feb 2024.
- SQL Fundamentals Certificates – HackerRank, Feb 2024.
- SQL Lessons Certificate – Codechef, Aug 2023.