

Mohammed Maqsood Ahmed

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Education

Masters in Computer Science (AI ML), University at Buffalo - New York

Aug 2025 – Present

Experience

Senior Cloud Engineer, LTIMindtree | Portland General Electric – Hyderabad, India

Jan 2021 – June 2025

- Designed and deployed cloud-native solutions across multiple enterprise projects, replacing legacy systems with scalable, event-driven architectures on AWS, achieving 30% cost reduction and 99.9% uptime.
- Built more than 100 high-performance APIs and serverless ETL pipelines, improving outage detection and customer alerting speed by ~40% for over 500K+ customers.
- Implemented anomaly detection and real-time alerting in the energy trading platform, reducing trading risks by 25% through early detection of pricing anomalies.
- Collaborated with data science teams to automate hydro and budget forecasting models, reducing report time from 3 hours to 20 minutes.
- Developed and deployed smart meter-based proactive outage alert system using AWS and Twilio, with fault-tolerant pipelines (DLQ, SQS, SNS) handling ~2M daily events and reducing storm-time calls by 35% while minimizing data loss by 80%.
- Architected real time Socket APIs and integrated Amazon Kendra with AWS Bedrock (Claude); delivered a Generative AI assistant for natural language queries
- Automated CI/CD pipelines (Jenkins) across all the environments, reducing deployment time by 60%.

Cloud Intern, Grephthor Software Solutions – Hyderabad, India

March 2019 – Oct 2019

- Collaborated with cross functional teams to execute cloud migration initiatives on AWS, enhancing scalability and performance.
- Implemented and maintained AWS CloudWatch monitoring alarms and dashboards tracking 15+ key metrics, reducing incident response time by 30% and improving application uptime.
- Engineered event-driven, serverless architectures leveraging AWS Lambda, Amazon S3, and Amazon SNS, enabling modular, scalable, and cost-efficient cloud solutions.

Projects

RefFlag, AI powered Chrome Extension

2025

Developed Redflag, a Chrome extension integrating LLM inference APIs and web scraping modules to audit and highlight risky Privacy, Terms and Conditions in real time - bit.ly/4iDcACq

Awards and Publications

Shooting Star Award, LTIMindtree

2024

Recipient of the Shooting Star Award for key contributions in the Cloud Pillar at LTIMindtree.

An Approach to Translate Human Gestures into Telugu

2022

Published in *International Journal of Scientific and Technology Research (IJSTR)*. bit.ly/4nTIJHY

Question Answering System using Deep Learning

2021

Published in *Journal of Xidian University*. bit.ly/44RHArw

Technical Skills

Programming Languages: Python | Java | JavaScript | SQL | Bash/Shell |

Database: Snowflake | DynamoDB | MySQL | PostgreSQL |

Framworks & Libraries: FastAPI | Spring | NumPy | Pandas | PyTorch | Hugging Face | Optuna | LangChain | Pinecone |

Cloud Computing (AWS): EC2 | RDS | S3 | Lambda | API Gateway | Glue | Step Functions | SNS | SQS | IAM | VPC |

CloudWatch | EventBridge | CloudFormation | SageMaker | Bedrock | Kendra | OpenSearch | Data Lakes |

DevOps & Infrastructure: Docker | Kubernetes | Terraform | CI/CD Pipelines (Jenkins)

Version Control & Testing: Git | REST APIs | Postman | JMeter

Certifications

| Oracle Generative AI Professional | AWS Solutions Architect | AWS Developer Associate | Deep Learning (IIT Madras) | Oracle AI Fundamentals Associate |