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, Grepthor 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.

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 |