

# Ameer Khan

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## Summary

Passionate and skilled in cloud technologies, automation, and DevOps best practices, with hands-on experience in AWS, Terraform, Kubernetes, Docker, and CI/CD tools like Jenkins and GitHub Actions. Adept at building scalable, efficient, and secure infrastructure, optimizing deployment workflows and improving system reliability through automation. A fast learner who thrives on problem solving and continuously improving cloud-based solutions.

## Professional Experience

**ExcelR Pvt. Ltd.** — Cloud Computing Engineering Intern Januar 2025 - April 2025

- Completed a 16-week long-term internship focused on Cloud Computing Engineering (AWS).
- Gained hands-on experience in cloud architecture, deployment models, and service implementation.
- Developed and managed cloud infrastructure including virtual machines, networking, and storage solutions.
- Collaborated with the team to implement DevOps practices and automation for cloud resources.

**ExcelR Pvt. Ltd.** — DevOps Intern June 2024 - August 2024

- Completed a 8-week long-term internship focused on DevOps.
- Gained hands-on experience in Linux, Shell scripting, and VCS (Git/GitHub).
- Assisted in the deployment and management of cloud infrastructure.
- Monitored system performance and troubleshooting issues.

## Projects

### Optimizing Energy Efficiency in Multi-Cloud Environments

- Designed a dynamic ML-driven system to reduce cloud energy use and carbon emissions via region-aware workload allocation.
- Integrated LSTM, ARIMA, and Bayesian optimization models across 5 AWS regions to cut energy usage by 27.2% and carbon emissions by 31.4%.
- Achieved 99.992% availability and 342% ROI using real-time monitoring and predictive analytics.

### End-to-End Kubernetes CI/CD Pipeline with Security and Observability

- Deployed a secure three-tier application on AWS EKS using Kubernetes, automated via Terraform and AWS CLI.
- Configured GitHub Actions for CI/CD, integrating Docker, SonarQube, and Trivy for container security and code quality.
- Continuous delivery managed with ArgoCD and optimized EKS cluster performance using Prometheus and Grafana.

## Publications

- Ameer et al., "Optimizing Energy Efficiency in Multi-Cloud Environments using Energy Aware Adaptive Workload Allocation System (EAAWAS)." International Journal of Research and Analytical Reviews (IJRAR), Volume 12, Issue 2, 2025. Paper ID: IJRAR25B1775 — ISSN: 2348-1269
- Sri et al., (2025). "Web-Based System for Student Performance Tracking and Lab Resource Allocation." International Journal of Scientific Research in Engineering and Management (IJSREM), Volume 09, Issue 04, April 2025. DOI: 10.55041/IJSREM44602

## Education

### Lingayas Institute Of Management and Technology

B.Tech in Computer Science and Engineering

(April 2025)

CGPA: 6.75

### Govt. Polytechnic, Vijayawada

Diploma in Electronics and Communication Engineering (ECE)

(Nov 2020)

Percentage: 64.15%

### Sravanthi High School

Schooling

(May 2017)

GPA: 9.7

## Skills

### Technical Skills:

- **Cloud Platforms:** AWS & Azure
- **Containerization:** Docker, Kubernetes
- **Infrastructure as Code:** Terraform
- **Programming Languages:** Python, HTML, CSS
- **Operating Systems:** Linux, Windows

### Soft Skills:

- Adaptability, Problem-Solving, Critical Thinking, Good Communication, Time Management and Attention to Detail

## Certifications

- NPTEL Elite Plus Silver certificate in Cloud Computing, December 2024
- EDX Verified Certificate for DevOps Basics for Everyone, July 2024
- Salesforce Developer Virtual Internship certificate, Salesforce, November 2023

## Languages

- English, Telugu, Hindi and Tamil