

# Ali H. Mughal

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## Skills

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**Cloud & DevOps:** AWS, Docker, Kubernetes, Terraform, CI/CD, Jenkins, GitLab, GitOps

**Programming Languages:** Python, Go, JavaScript, C, C++

**Frameworks:** Next.js, React.js, Node.js, Django, Flask

**Databases:** MongoDB, DynamoDB, Amazon Aurora, MySQL, S3

**Miscs:** Linux, Bash, Nginx, Apache, GitHub, YAML, JSON, GenAI, Cyber Security

## Licenses and Certifications

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- **AWS Cloud Practitioner**
- **AWS DevOps** (Knowledge Badge)
- **Cisco Certified DevNet** – Associate (200-901)
- **IBM DevOps & Software Engineer** – Professional
- **CS50x / CS50p / CS50w** (Harvard)
- **AWS Generative AI for Executives** (Knowledge Badge)
- **Prompt Engineering for Developers** (DeepLearning.AI)

## Professional Experience

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### Code Clause

DevOps Engineer

Pune, India (remote)  
November, 2024 – April, 2025

- Configured and maintained HA Kubernetes clusters with automated deployments, achieving zero-downtime releases.
- Integrated Prometheus & Grafana for real-time monitoring, improving issue detection and resolution by 40%.
- Implemented disaster recovery strategies, reducing RTO from hours to under 10 minutes.
- Designed AWS Auto Scaling architectures, supporting scalable web services with 99.9% uptime.
- Optimized infrastructure using EC2 Spot Instances & CloudWatch, cutting operational costs by 20%.
- Ensured microservices resilience with redundancy and fault tolerance, enhancing overall system reliability.

### Oxiliry (ex-BaseCamp Data Solutions)

Software Engineer

Islamabad, Pakistan (on-site)  
January, 2024 – October, 2024

- Deployed and customized Tactical RMM on workstations, enabling centralized monitoring and reducing troubleshooting time by 30%.
- Implemented real-time activity logging (screenshots + browser), strengthening compliance and audit readiness.
- Integrated monitoring data into a secure MySQL database, improving reliability and internal audit accuracy.
- Containerized services with Docker and customized backend in Django, cutting deployment time from hours to minutes.
- Automated endpoint management with PowerShell scripts, improving device onboarding efficiency by 35%.
- Leveraged MeshCentral for remote access, streamlining team device management and reducing support tickets by 25%.

## Projects

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### DevSecOps CI/CD Pipeline | Jenkins, AWS, Kubernetes, GitOps, Security, Monitoring, Terraform

April, 2025

- **URL:** [github.com/CaesarAli-007/DevSecOps-CICD](https://github.com/CaesarAli-007/DevSecOps-CICD)
- Provisioned EC2 Master Node using Terraform.
- Configured IAM, Key Pairs and Security Groups for secure access.
- Created an EKS Cluster with Node Groups using Infrastructure as Code.
- Set up Jenkins pipelines for automated build, test and deployment.
- Integrated SonarQube for code quality checks during CI.
- Configured Docker to containerize the Node.js + React + MongoDB application.
- Integrated GitHub with ArgoCD for automated, declarative deployment to EKS.
- Application manifests stored in a Git repository to enable GitOps flow.
- Used Trivy for container vulnerability scanning.
- Implemented OWASP security checks in the CI pipeline.
- Enabled Docker Mail notifications for pipeline results and security alerts.
- Set up Prometheus for metrics scraping and alerting.
- Integrated Grafana dashboards for real-time visualization and monitoring.

### Serverless File Processing System | AWS, S3, Lambda, DynamoDB

February, 2025

- **URL:** [github.com/CaesarAli-007/AWS-SERVERLESS-FILE-PROCESSING](https://github.com/CaesarAli-007/AWS-SERVERLESS-FILE-PROCESSING)
- Designed & deployed a serverless file processing pipeline using AWS Lambda, S3 & DynamoDB.
- Automated file processing with event-driven Lambda triggers on S3 uploads.
- Stored metadata in DynamoDB for efficient tracking & querying.
- Implemented IAM policies to enforce secure access control across AWS services.
- Optimized cost & performance by leveraging serverless architecture within AWS Free Tier.

### Tactical RMM | Python, Django, Vue.js, MySQL, Docker, Nginx, MeshCentral

February, 2024

- **URL:** [github.com/CaesarAli-007/tacticalrmm](https://github.com/CaesarAli-007/tacticalrmm)
- Deployed and configured Tactical RMM on company-issued laptops for remote endpoint monitoring.
- Customized RMM to capture screen snapshots every 5 seconds and log browser activity in real-time.
- Integrated captured data into a centralized on-premises MySQL database via secure remote access.
- Extended open-source RMM capabilities using PowerShell scripting, Python APIs and Docker-based deployment.
- Enhanced endpoint visibility and employee monitoring using MeshCentral and backend log aggregation.

### Kubernetes 3-Tier Application | AWS, EKS, GitHub, Network, Micro-Services

September, 2024

- **URL:** [github.com/CaesarAli-007/3TierApp-k8s](https://github.com/CaesarAli-007/3TierApp-k8s)
- Deployed a scalable three-tier application (ReactJS, NodeJS, MongoDB) on AWS EKS.
- Utilized Kubernetes for container orchestration and workload management.
- Implemented AWS ALB for intelligent load balancing across application nodes.
- Enhanced scalability, supporting a 50% increase in user traffic without performance loss.
- Achieved 99.9% uptime by optimizing infrastructure reliability and traffic distribution.
- Delivered a robust production-ready environment, improving reliability and user experience.

### Bit Coin App | React.js, Tailwind, Netlify, API Server

August, 2023

- **URL:** [github.com/CaesarAli-007/Bit-Coin-App](https://github.com/CaesarAli-007/Bit-Coin-App)
- Designed and developed a Bit Coin web application which keeps track of every coin for user experience.
- Implemented API (coingecko) for gathering coins information to displaying on the webpage.

## Education

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**SZABIST, Islamabad**  
Bachelor of Computer Science

Expected Graduation: 2026  
CGPA: 3.1