MOHIBUL ALAM

LinkedIn | +8801950685947 | Medium | mohibul.alam7512@gmail.com | GitHub

Skills

- **Programming & Scripting:** Python | Go | Node.js | Bash | FastAPI
- **Databases & Search Engines:** PostgreSQL | MongoDB Atlas | Redis | OpenSearch | Qdrant Vector DB
- **Cloud & Infrastructure:** AWS | GCP | Azure | Terraform | Terragrunt | Ansible | Linux | Docker | Kubernetes (EKS, GKE) | Helm | Karpenter
- **CI/CD & DevOps Automation:** Jenkins | GitHub Actions | Atlantis (GitOps) | AWS CodePipeline | Azure DevOps Pipelines
- **Observability & Monitoring:** Datadog | OpenTelemetry | Prometheus | Grafana | Grafana Tempo | Grafana Loki
- **Data & Messaging:** Amazon Kinesis | Amazon Redshift | Spark on EMR | RabbitMQ
- **AI/ML Platforms:** Amazon SageMaker | Amazon Bedrock | Azure ML Studio | Azure OpenAI
- **LLM Application Frameworks:** RAG Architecture | Promptflow | Semantic Kernel | LlamaIndex | AI Agent

Experience

Software Engineer II (SRE) — **Optimizely Inc.** — *Dhaka, Bangladesh* — **08/2026 - Present**

- Operate as a Site Reliability Engineer for multi-cloud infrastructure spanning multiple AWS accounts and GCP projects across multiple regions.
- Maintain 50+ microservices running on Amazon EKS and Google GKE, using Helm, HPA, and Karpenter-driven auto-scaling for scalable, fault-tolerant workloads.
- Manage Infrastructure-as-Code at scale with Terraform, Terragrunt, and Ansible, with GitOps workflows powered by Atlantis for automated plan/apply cycles.
- Support real-time data pipelines built on Amazon Kinesis, Redshift, OpenSearch, MongoDB Atlas, and Spark on EMR.
- Operate self-managed OpenSearch, RabbitMQ, and other stateful services, handling upgrades, scaling, and day-to-day reliability.
- Maintain CI/CD across 250+ Jenkins pipelines and GitHub Actions workflows.
- Drive monitoring, alerting, and incident response with Datadog, and automate operational tasks using Python and Bash.
- Contribute code to service repositories (Node.js, Python, Go) to resolve reliability issues and improve deployments.

Senior DevOps Engineer II — **Brain Station 23 PLC** — *Dhaka, Bangladesh* — **01/2022 - 08/2026**

- Architected, deployed, and managed scalable and resilient cloud-based solutions across AWS, Azure, and on-premises environments, supporting high-availability systems with 99.9% uptime.
- Introduced Infrastructure-as-Code (IaC) using Terraform and AWS CDK, reducing system provisioning time by 60% and enabling reproducible, scalable deployments.
- Migrated on-premise infrastructure to the cloud using Terraform and CDK, reducing infrastructure costs by 30% while improving scalability and operational efficiency.
- Implemented CI/CD pipelines integrated with DevSecOps practices, accelerating deployment cycles by 80% while enhancing compliance with security and audit standards.
- Orchestrated large-scale deployments using Docker, Kubernetes, AWS, and Azure, resulting in a 25% reduction in infrastructure costs and significantly improved service reliability.
- Deployed cloud-managed firewalls and Site-to-Site VPNs, strengthening network security and reducing security incidents by 60% while maintaining compliance with industry standards.
- Established observability and monitoring frameworks with Grafana, Prometheus, Tempo, and Loki, decreasing system downtime by 30% through real-time alerting and rapid issue resolution.
- Managed and optimized diverse databases (PostgreSQL, SQL Server, MongoDB, DynamoDB), achieving a 40% increase in data reliability, performance, and integration across cloud and on-premises environments.
- Architected and deployed AI applications using LLMs and tools like Promptflow, Semantic Kernel, and LlamaIndex to implement scalable RAG-based systems and agent-driven workflows, enhancing response quality and reducing latency by 30%.
- Developed and optimized backend APIs using FastAPI and AWS Lambda with Python, improving application performance by 40% while maintaining low-latency response times.
- Directed DevOps initiatives, mentoring junior engineers and standardizing infrastructure-as-code, CI/CD, and observability practices, resulting in a 40% faster release cycle and improved team agility.

• Collaborated cross-functionally with developers, QA engineers, and IT teams to streamline DevOps pipelines, resolve deployment bottlenecks, and cut software delivery times by 25% through improved coordination and automation.

Education

Bachelor of Science in Software Engineering — **University of Dhaka** — *Dhaka, Bangladesh* — **2018 - 2022**

- CGPA 3.61 (out of 4.00)

Certifications

- **AWS DevOps Engineer- Professional (AWS DOP C02)**

Validates advanced expertise in automating, deploying, operating, and managing distributed applications on AWS using DevOps best practices, Infrastructure as Code (IaC), CI/CD, monitoring, and security. **(Valid until 04/2029)**

- **AWS Certified Security- Speciality (AWS SCS-C02)**

Exhibits extensive expertise in AWS cloud security, specializing in securing environments, mitigating risks, and applying industry-leading security practices. Proficient in identifying vulnerabilities, ensuring compliance, and automating security processes across complex cloud architectures. **(Valid until 06/2028)**

- **Certified Kubernetes Application Developer (CKAD)**

Validates hands-on ability to design, build, and manage cloud-native applications in Kubernetes. Skilled in configuring resources, managing deployments, and troubleshooting running applications in production environments. Strong focus on microservices architecture and best practices for container orchestration. **(Valid until 01/2027)**

Key Projects

1. Scalable Ticket Booking Platform for Nationwide Cricket League

• Built a high-traffic ticket-selling platform for the Nationwide Cricket League, ensuring scalability and high availability during traffic surges.
• Managed AWS infrastructure (EKS, EC2, RDS, ElastiCache, OpenSearch), optimizing performance and ensuring secure, reliable operations with WAF and API Gateway.
• Automated infrastructure provisioning and built CI/CD pipelines with Terraform and CodeBuild, reducing manual configuration and deployment time by 40%.
• Collaborated with cross-functional teams, streamlining development processes and reducing release times by 30%.
• Led load testing to ensure 99.9% uptime and validate system scalability under peak traffic.
• Implemented autoscaling using Karpenter and HPA on EKS, reducing infrastructure costs by 20% while maintaining performance.

2. AI Chatbot & Agent for E-Commerce Admin Operations

• Designed and implemented an AI chatbot using AWS Bedrock to handle natural language understanding and real-time data retrieval for customer, product, and payment information.
• Developed backend logic to connect the chatbot with RDS (PostgreSQL) and enable dynamic SQL calculations, providing admins with actionable insights directly from the chat interface.
• Integrated AWS SES to allow the chatbot to send structured and custom emails, enabling admins to communicate with customers without leaving the chat interface.
• Enhanced search relevance by integrating OpenSearch with the LLM-based chatbot, improving query performance across historical payment records and customer data.
• Implemented Qdrant as a vector database to enable semantic search capabilities for more accurate and efficient query results.
• Deployed the solution using AWS Lambda, ensuring a serverless, scalable, and efficient environment for internal operations.

3. Peppes Pizza Online Platform

• Developed an intuitive pizza ordering platform for a leading European vendor, optimized for 24/7 high traffic and real-time delivery tracking.
• Managed Azure infrastructure with Terraform, securing systems via Azure Firewall and Site-to-Site VPN.
• Designed Azure Hub-and-Spoke network for optimized, secure connectivity between microservices.
• Maintained CI/CD pipelines on Azure DevOps, improving deployment speed by 30%.
• Led load testing to validate system performance, ensuring 99.9% availability during peak traffic.
• Resolved production issues, ensuring seamless operations and enhancing the user experience.