

Md Abdullah Al Noman

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Dhaka, Bangladesh

SKILLS

- **Cloud Platforms:** AWS, GCP, Azure, Huawei Cloud
- **Container Orchestration:** Kubernetes, Helm, Kustomize, Flux v2, Karpenter, Docker
- **CI/CD & GitOps:** Jenkins, Argo Workflows, Flux v2, Fastlane, Buildpack, Gitea, JFrog, GitHub Actions
- **Infrastructure as Code:** AWS CDK, Ansible, CloudFormation, Terraform
- **Observability & SLOs:** OpenTelemetry, Prometheus, Grafana Loki, Grafana Tempo, CloudWatch, PMM, SLI/SLO definition, Error Budgets
- **Security & Access:** HashiCorp Vault, Keycloak, HashiCorp Boundary, Trivy, Harbor, SonarQube, ModSecurity
- **Networking & Ingress:** Cilium, Calico, NGINX, APISIX, WAF, ALB, NAT Gateway
- **Data & Messaging:** PostgreSQL (Patroni HA), Strimzi Kafka, Debezium, Redis, MinIO, MongoDB
- **Programming:** Java, Python, JavaScript, TypeScript, C, SQL, Bash
- **Application Frameworks:** Spring Boot Ecosystem, React, NodeJS

EXPERIENCE

- **Brain Station 23** 

Senior Software Engineer I

Aug 2024 - Current

Dhaka, Bangladesh

 - Integrated mobile app CI/CD covering 95% of service pipelines across 15 projects (500 services), and led DevSecOps adoption by embedding vulnerability scanning (Trivy, SonarQube) into pipelines, reducing security findings reaching production.
 - Owned on-call incident response for platform and infrastructure, leading L3 escalation and resolution across production environments while consolidating resources to contribute to 99% uptime.
 - Defined and tracked SLIs/SLOs for critical platform services, using error budgets to prioritize reliability work and balance feature delivery against stability commitments.
 - Drove toil reduction initiatives by identifying and automating repetitive operational tasks across teams, freeing engineering capacity for higher-value platform improvements.
 - Strengthened security posture by implementing RBAC policies for 100% of users and conducting DevSecOps vulnerability analysis across services to ensure compliance with internal and client security standards.
 - Drove pre-sales activities for multiple client engagements, delivering infrastructure cost estimations, cloud architecture proposals, and technical consulting; prototyped solutions in financial reconciliation, fraud detection, and AI-driven DevOps automation for stakeholder demonstrations.
 - Served as a technical leader and mentor on cloud-native best practices, establishing engineering standards and accelerating team onboarding across platform and DevOps disciplines.
- **Brain Station 23** 

Associate Software Engineer

Nov 2021 - Jul 2024

Dhaka, Bangladesh

 - Streamlining DevOps processes, achieving an 80% reduction in development and operations lifecycle time for Fintech DEV/UAT cluster.
 - Conducted analysis on application performance metrics by performing load testing, identifying bottlenecks that reduced latency by 20% after optimization.
 - Designed and developed event-driven microservices with Spring Boot integrations, streamlining data flow, scalability, and fault tolerance.
 - Researched and developed Hyperledger Fabric-based solutions, improving efficiency in supply chain ecosystems.

PROJECTS

• **Fintech Internal Developer Platform: [Platform and Operations Engineer]**

Oct 2023 - Current

Tools: [K8S, Terraform, Argo, Fastlane, Buildpack, SonarQube, Trivy, Harbor, Boundary, Keycloak, Vault, JFrog, NGINX]

- Designed and built an internal developer platform on Kubernetes with Cilium networking, enabling 15+ product teams to self-serve deployments and eliminating infrastructure bottlenecks across DEV/UAT environments.
- Integrated Jenkins, Argo Workflows, Fastlane, Buildpack, Helm, and GitHub Actions to automate deployments across 500 services, achieving an 80% reduction in delivery cycle time and eliminating toil from manual release processes.
- Established platform-wide golden paths: 100% PR-based code quality gates (Gitea + SonarQube), automated container vulnerability scanning (Trivy + Harbor), and symptom-based alerting with OpenTelemetry, Grafana Loki, Tempo, and Prometheus.
- Secured all services with zero-standing-credentials using HashiCorp Vault for dynamic secrets, Keycloak for SSO, and Boundary for RBAC-enforced infrastructure access, enforcing least-privilege across the platform.

• **ZooperPay [🌐]: [DevOps Engineer]**

Mar 2026 - Current

Tools: [AWS, Flux, Karpenter, Patroni, Strimzi Kafka, Redis, OpenTelemetry, APISIX, Spring Boot, Java]

- Architected a production-grade fintech platform on AWS EKS across 3 AZs using AWS CDK (TypeScript) — 8 independently deployable stacks, 15+ reusable constructs — and operated it via Flux v2 GitOps in a two-tier model managing 17 app workloads (15 backend, 2 frontend) with per-component Kustomizations and tight prune scopes.
- Deployed self-managed HA data tier using Patroni PostgreSQL, Strimzi Kafka, and Redis Failover across 3 AZs with dedicated gp3 StorageClasses, achieving sub-minute RPO via pgBackRest WAL archiving to S3 with cross-region replication; validated HA/DR commitments through controlled failure injection and restore drills.
- Defined SLIs and SLOs for payment platform services, using error budgets to govern release velocity and prioritize resilience improvements over feature work during budget exhaustion.
- Developed and integrated a bKash payout system for ZooperPay, enabling seamless mobile financial service disbursements for platform users.
- Enforced infrastructure compliance using AWS CDK automated provisioning guardrails and CloudTrail, maintaining 100% audit trail coverage across all 8 stacks and AWS resources.
- Built symptom-based alerting via OpenTelemetry Collector shipping to CloudWatch Logs (6-month retention) with 5 EKS control-plane log streams, reducing alert noise and improving on-call signal fidelity.

• **Revo Global [🌐]: [DevOps Engineer]**

Nov 2025 - Current

Tools: [Python, Playwright, Java, Spring Boot, SQS]

- Architected a cloud-native browser automation platform using Python Playwright, containerized with Docker (VNC/noVNC remote viewing), and deployed as Kubernetes Jobs with persistent browser profiles to scrape deep web data sources at scale.
- Built a Java Spring Boot backend exposing scraped data through REST APIs, dynamically orchestrating Kubernetes Jobs via Mustache-templated manifests and processing events across 6 AWS SQS FIFO queues with exponential backoff retry, Dead Letter Queue alerting, and 3-attempt fault tolerance.
- Implemented a manual interruption and monitoring system integrated through Linux window managers and VNC, enabling real-time operator oversight and controlled intervention in automated browser sessions.
- Secured the platform with HashiCorp Vault (Spring Cloud Vault, path-based secrets) and integrated Keycloak v26 for multi-tenant SSO with a multi-layer RBAC hierarchy, caching authorization decisions in Redis for sub-millisecond access control.
- Provisioned full AWS infrastructure using CDK v2 (TypeScript) across UAT and Production environments, deploying a Kubernetes cluster with Cilium CNI and OpenTelemetry observability pipeline.

• AB Bank PLC Internet Banking [🌐]: [DevOps Engineer]

Oct 2024 - Current

Tools: [Huawei Cloud, Bash, Rundeck, Kafka, MinIO, Redis, Jenkins, OpenTelemetry, Grafana Stack, Playwright, Spock]

- Engineered and deployed 2 environments (UAT and Production) including servers, networks, load balancers, and WAF on Robi Huawei Cloud, supporting a PLC-grade internet banking platform.
- Eliminated manual server maintenance by implementing full automation via Bash scripts and Rundeck, reducing synchronization task execution time from hours to minutes.
- Deployed Kafka Raft, MinIO, Redis, and application services in 3-node distributed mode with end-to-end TLS on bare-metal servers, achieving zero single points of failure.
- Developed solutions to integrate reconciliation systems with MFS platforms, streamlining financial data synchronization across banking and mobile financial services.
- Developed integration tests for regression using Playwright and Spock, ensuring end-to-end reliability across critical banking workflows.
- Optimized the event messaging architecture, improving system throughput and reducing processing latency by 50%.

• City Remittance [🌐]: [DevOps Engineer]

June 2023 - Current

Tools: [SpringBoot, JS, K8S, Calico, Kafka, Redis, OracleSQL, MinIO, Prometheus, Loki, Nginx]

- Deployed and maintained the application across 2 clusters (UAT and Production) providing L3 support, maintaining 99%+ uptime through proactive issue tracking and resolution.
- Validated system resilience through continuous load, integration, and chaos testing cycles — injecting failures to confirm observability, failover, and HA commitments before production impact.
- Drove platform adoption by implementing an agent and customer referral reward system, increasing user engagement and improving retention metrics.

• Rokomari.com [🌐]: [Operations Engineer]

Dec 2024 - Feb 2025

Tools: [NGINX, ModSecurity, Opentelemetry, Spring Framework, Prometheus, Loki, Tempo, Grafana]

- Integrated NGINX and ModSecurity WAF with custom rule sets; built symptom-based Grafana dashboards and alerts that surfaced security anomalies before outages, reducing detection and triage time for production traffic incidents.
- Deployed a unified observability stack with OpenTelemetry, Grafana Loki, Tempo, and Prometheus covering 8+ services (Redis, MongoDB, RabbitMQ, and application tiers), consolidating distributed traces, logs, and metrics into a single pane and reducing average troubleshooting time by over 50%.

EDUCATION

• Islamic University of Technology

Jan 2020 - Jul 2024

B.Sc. in Software Engineering

Dhaka, Bangladesh

- CGPA: 3.57/4.00

HONORS AND AWARDS

• Champion

May 2024

National ICT Fest 2024 DevOps Challenge, Islamic University of Technology



- Created a car rental system that improved user experience and optimized vehicle booking workflows, demonstrating proficiency in full-stack development with Spring Boot microservices, React JS, PostgreSQL, Redis, and Kafka.
- Showcased proficiency in DevOps by building an end-to-end pipeline on Google Cloud, self-hosted Kubernetes, and integrating Argo, Buildpack, and Tailscale for smooth deployment and efficient infrastructure management.

• 1st Runner Up

Nov 2023

ITVERSE 2023 DevOps Challenge, Dhaka University



- Created a tax wizard system that automates tax calculations and streamlines the filing process for users, utilizing Spring Boot microservices, Kafka and MinIO.
- Demonstrated expertise in DevOps by creating a full pipeline using Google Cloud IAM, VPC, Compute, NAT, Registry, self-hosted Kubernetes, Jenkins and NGINX.

ADDITIONAL INFORMATION

Interests: Motorsports, Sewing, Skateboarding, AI, Gaming, IOT, Low-Code Systems