

MD. ALAMIN MAHAMUD

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EXECUTIVE SUMMARY

- Dynamic technology leader with 10+ years of expertise in building scalable cloud platforms & leading DevOps + SRE teams.
- Proven track record of saving over \$1M in cloud costs and contributing to SaaS ARR of \$20M+.
- A multi-dimensional thinker with a global mindset, systems-level thinking, and a relentless execution habit.

EXPERIENCE

Kahf Yazılım A.Ş.

Istanbul, Turkey

Senior DevOps Engineer

May 2025 - July 2027

- On a mission to make online world safe & secure.
- Migrating the entire infrastructure from Azure to Bare-metal

Technologies & Skills: Bind9, CloudNative-PG, Kubernetes, Ansible, Terraform, Microsoft Azure, Traefik, Helm Charts, Prometheus, Grafana, Loki

DevOps Contributor

Istanbul, Turkey, Remote

May 2025 - July 2027

- On a mission to make online world safe & secure.
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LeadSync.ai

Singapore, Remote

Senior Software Engineer - AI Products

May 2025 - July 2027

- Accelerated time-to-market by 40% by architecting and deploying an end-to-end integration of the Model Customization Platform (MCP) with advanced large language models (LLMs) within the sales pipeline.
- Boosted qualified lead discovery by 25% through the introduction of AI-driven lead scoring, semantic enrichment, and personalized outreach recommendations, resulting in faster deal cycles and higher conversion rates.

Technologies & Skills: MCP Protocol, LLM Integration, AI-SDK, TypeScript, PostgreSQL, [NestJS](#), [NextJS](#)

BriteCore Inc

Springfield, MO, USA, 5 Years 5 Months

Senior Platform Engineer & SRE - Cloud Team

Feb 22 - Jan 2025

- Generated \$20M+ ARR by designing, implementing, and maintaining highly available, cost-efficient SaaS platforms.
- Cut \$1M+ cloud bill by spearheading cloud cost-saving initiatives.

- **Eliminated 30% of production brownouts** by optimizing the runtime configuration and state management
- **Accelerated development cycles by ~35%** by engineering CI/CD pipelines with GitHub Actions self-hosted runners, enabling **200+ daily builds**.
- **Attained SOC2 compliance** by lowering vulnerability exposure by **~60%** through robust security measures and by passing all external audits on the first attempt.
- **Neutralized DDoS attacks** from high-volume bot traffic through proactive monitoring and advanced filtering solutions, blocking an average of **several thousand** malicious requests per day with reduced brownouts.
- **Streamlined infrastructure provisioning by 80%** by leveraging Terraform modules and libraries.
- **Enhanced production visibility** by reducing mean time to detect (MTTD) by **80%** through real-time operational dashboards in Datadog.

Platform Engineer - Platform & Cloud Team

Apr 21 - Jan 22

- **Cut AWS cloud costs by ~\$36.5K/year** by optimizing log ingestion on CloudWatch.
- **Mitigated data breaches and multi-million dollar customer churn** by enhancing client data security by deploying a cross-account read replica setup for safe data storage.
- **Boosted system scalability and maintainability by 40%** by leading cross-functional teams to design, develop, test, and document DevOps tooling, sustaining **99.99%** uptime across multiple environments.
- **Expedited go-to-market timelines by ~30% and boosted overall product performance by ~15%** by diagnosing root causes and collaborating with cross-functional teams to implement targeted fixes.
- **Engineered a robust Data Abstraction Layer (DAL)** by integrating staged deployments across a multi-organizational AWS structure, enabling users to query observability metrics from **50+ accounts** for data-driven decision-making and facilitating **near-instant production cloning** for 24/7 client support.

Site Reliability Engineer - SRE & SysOps Team

Sep 19 - Mar 21

- **Upheld 99.99% SLA for 50+ clients** by integrating advanced monitoring tools, proactive alerts, and robust SLOs to ensure a reliable, scalable, and fault-tolerant system.
- **Eliminated 30 minutes of downtime** by implementing blue/green deployments, achieving a seamless zero-downtime production environment.
- **Elevated internal team satisfaction by 20%** by enabling custom production data selection at application launch.
- **Automated support operations by reducing manual toil by 75%** by developing a serverless nightly release reporting system.
- **Boosted high-profile customer satisfaction to 90%** by enabling continuous delivery on multiple cadences

Pathao LLC

Dhaka, Bangladesh (On-Site)

Software Engineer

May 19 - Jul 19

- **Migrated 2M user ratings** by architecting and deploying a scalable feedback system.
- **Standardized API structure** by bootstrapping a robust API aggregation service.
- **Optimized order invoicing** by authoring a stateless microservice to calculate invoice amounts accurately.

- Sustained 99.99% uptime for high-traffic applications with 1M+ daily hits by restructuring the underlying infrastructure.
- Reduced page load times by over 90% by implementing robust caching mechanisms and fallback support.
- Enabled EMI features in the payment module by integrating with a secure, efficient payment gateway.
- Expanded system scalability for a nationwide distribution network by decoupling a monolithic architecture into microservices, load-balancing traffic, and deploying read-write database replicas.
- Enhanced shopping experience for users by developing innovative features like "cancel and re-order" and "coupon refund."

- Streamlined promotional workflows by 25% by integrating enhanced promo code generation, location management, and commission management systems.
- Developed a messenger bot that can automate customer interactions for their delivery service.

SKILLS

SaaS Architecture, Development

- Languages: Python, Go, TypeScript
- Web Framework: FastAPI, NestJS, Gin, Flask, Django
- API Dev: REST, gRPC
- Auth & Security: JWT
- Databases & Caching: PostgreSQL, MySQL, Redis
- Messaging & Queues: RabbitMQ
- Search: Elasticsearch / OpenSearch, Index Lifecycle Management, Shard Optimization.

Cloud & DevOps Tools

- Cloud: AWS, GCP, Azure
- IaC: Terraform, AWS CDK, CloudFormation, Ansible, SaltStack,
- CI/CD: GitHub Actions, Jenkins
- Networking: OSI, IPv6, DNS, TLS, Firewalls, BGP

Linux Administration & Performance Tuning

- OS: Debian (Ubuntu, Kali), Arch
- Kernel Tuning & Optimization: sysctl, cgroups, eBPF
- System Profiling & Performance: perf, eBPF, strace, lsof, iostat, htop, sar
- Filesystem & Storage: LVM, RAID, ZFS

Kubernetes Ecosystem

- Container Runtime: Docker, Containerd, LXC
- Orchestration: Kubernetes, ECS, EKS
- Cluster Management: kubeadm, MetalLB
- Container Network Interface: Calico
- Networking: VXLAN/IPIP for pod networking
- Storage & Backup: Longhorn
- Ingress & Service Mesh: Nginx, Traefik, Istio
- Deployment Management: Helm, Kustomize
- GitOps: ArgoCD

Kubernetes Development

- Development: Kubernetes API, Controllers, CRDs, Operators
- Development Frameworks: Kubebuilder
- Golang Libraries: client-go, controller-runtime, apimachinery
- Custom Controller Design: Reconciliation Loops, Finalizers
- Security & Policy Management: mTLS
- Testing & Debugging: kubectl-debug, k9s

- [Security Hardening](#): SELinux, AppArmor, iptables, auditd, Fail2Ban

On-Premises & Homelab

- [Virtualization & Hypervisors](#): Proxmox
- [Storage Solutions](#): TrueNAS, Ceph, ZFS, NFS
- [Networking & Security](#): pfSense, VLANs, VPN
- [Automation & Self-Hosting](#): Ansible

Observability & Security

- [Monitoring & Logging](#): DataDog, CloudWatch, Prometheus, Grafana, Loki, ELK (ElasticSearch, LogStash, Kibana)
- [Compliance & Security](#): SOC2, OWASP, DDoS Protection

CERTIFICATION & TRAINING

- **Kubernetes:**
 - [Certified Kubernetes Administrator \(In-Progress\)](#)

EDUCATION

Chittagong University of Engineering & Technology

Bachelor of Science in [Mechanical Engineering](#)

Chittagong, Bangladesh

Mar 13 - Sep 17

AWARDS

International Engineering Innovation Summit 2015

Hackathon Champion & App Fest Runner-Up

Dhaka, Bangladesh

COMMUNITY ENGAGEMENT

- Host at Source Code Podcast.
- Regular content contributor on LinkedIn (1K+ followers) around AI, DevOps, Startup Vision

PROJECTS & OPEN SOURCE

- **HomeLab**: This project utilizes [Infrastructure as Code](#) and [GitOps](#) to automate provisioning, operating, and updating self-hosted services in my homelab. It can be a highly customizable framework to build your homelab. ([Link](#))
- **Alexandria**: A Terraform library to be consumed by other GitHub repositories and services. It provides Infrastructure as Code (IaC) templates and modules to facilitate the deployment and management of cloud-based architectures. ([Link](#))
- **Capstone**: This project aims to solve the Asset Allocation Problem, which involves determining the optimal resource allocation to maximize results given certain constraints and metrics. The solution is akin to strategy games where optimal resource allocation is key.
- [AlterYouth.com](#): "The Uber for Scholarships" - C2C scholarship app enabling users worldwide to start scholarships

directly for financially struggling students in Government Primary Schools of Bangladesh through digital banking.