Umar Zaman

Toronto, ON | (647) 819-8217 | zamanu@sheridancollege.ca | LinkedIn | GitHub | Portfolio

TECHNICAL SKILLS

Cloud & DevOps: AWS (EC2, S3, IAM, Lambda, CloudWatch), Docker, Terraform, Kubernetes (K3s, Helm), GitHub Actions

Languages: Python, Bash, Go, JavaScript/TypeScript

Monitoring & Observability: Prometheus, Grafana, CloudWatch

Infrastructure & Systems: Linux (Ubuntu/Debian), CI/CD Pipelines, Infrastructure-as-Code (Terraform, YAML)

Developer Tools: Git, VS Code, Jira

Certifications: AWS Certified Cloud Practitioner (CLF-C02, 2025)

EXPERIENCE

Cloud Engineer Intern — Jan. 2025 – Aug. 2025

Learning Mode AI — *Toronto, ON (Remote)*

- Led DevOps and SRE initiatives to modernize AWS infrastructure, architecting a Terraform-based staging environment for four microservices running on a single EC2 instance, improving environment consistency and reducing infrastructure costs by 40%.
- Implemented CI/CD pipelines using GitHub Actions for automated Terraform validation and service deployments, automating most infrastructure provisioning tasks and reducing deployment time by 70%.
- Built centralized logging and alerting using AWS CloudWatch and Slack API, cutting troubleshooting time from hours to minutes and improving system visibility across all services.
- Reduced Mean Time to Detection (MTTD) of production incidents by 80% through proactive monitoring and real-time alerts integrated with CloudWatch metrics.
- Collaborated with a cross-functional developer team to standardize Infrastructure-as-Code practices, improving deployment reliability and scalability across environments that supported over 200 active users.

Frontend Developer Intern — Jan. 2024 – May 2024

Prabbis Consulting — *Halifax, NS (Remote)*

- Developed and deployed responsive frontend pages using Next.js, Tailwind CSS, and TypeScript, including secure authentication flows.
- Improved reusability and responsiveness across mobile, tablet, and desktop platforms.
- Collaborated with mentor and team using Jira within Agile sprints.

PROJECTS

BlockchainCore | *AWS, GCP, Terraform, Python, GitHub Actions*

- Architected a multi-cloud data analytics platform with AWS-GCP redundancy, achieving 99.9% uptime and sub-2-minute failover.
- Provisioned 20+ resources using Terraform to standardize infrastructure and enable repeatable multi-cloud deployments.
- Built serverless pipelines processing 2000+ real-time messages with sub-second latency using Lambda and Cloud Functions.
- Developed unified monitoring and alerting with CloudWatch and GCP Monitoring for automated incident detection.
- Implemented a cost-optimized backup system leveraging GCP's free tier, cutting monthly infrastructure costs by $5.

Raspberry Pi Kubernetes Homelab | *K3s, Docker, Prometheus, Grafana, Helm, Terraform, Bash*

- Architected and deployed a production-grade K3s cluster with Infrastructure as Code using Kustomize overlays and Helm charts.
- Implemented GitOps-style workflows for version-controlled deployments and environment-specific configurations.
- Configured Prometheus and Grafana for observability across nodes, pods, and custom metrics with 12+ dashboards.
- Reduced cluster memory usage by 16% via optimized resource allocation and tuned HPA scaling thresholds.
- Built automated CI/CD pipelines with 15+ Makefile tasks for deployment, cleanup, and backup management via CronJobs.

EDUCATION

Sheridan College Institute of Technology and Advanced Learning — Oakville, ON

Honours Bachelor of Computer Science (Cloud Computing) — *Expected 2026*

Computer Systems Technology: Software Engineering Diploma — *Sept. 2020 – Dec. 2023*