Umar Zaman

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EDUCATION

Sheridan College Oakville, ON
Honours Bachelor of Computer Science (Cloud Computing) *Expected 2026*
Computer Systems Technology: Software Engineering Diploma *Sept. 2020 – Dec. 2023*

EXPERIENCE

Cloud Engineer Intern Feb. 2025 – Present
Learning Mode AI *Toronto, ON (Remote)*
- Led enhancements to production logging on AWS using CloudWatch, improving traceability and reducing troubleshooting time.
- Built Docker-based environments to simulate multi-service production workloads for testing.
- Explored Infrastructure as Code (Terraform/CDK) to streamline and standardize deployments.
- Collaborated on a proof-of-concept comparing Sentry vs AWS-native logging within CI/CD workflows.

Frontend Developer Intern Mar. 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, Terraform, SQS, Lambda, DynamoDB, S3, EventBridge, SNS, Glue, Athena, Python, Docker*
- Led the design of a real-time blockchain data analytics pipeline that ingested live cryptocurrency trades from Binance WebSocket into SQS and Lambda.
- Stored raw trades in S3 with partitioning and processed OHLCV data in DynamoDB; enabled historical analytics through Glue Catalog and Athena.
- Implemented anomaly detection for price movements, volume spikes, and SMA divergence using EventBridge, Lambda, and SNS alerts.
- Provisioned infrastructure with Terraform and optimized costs by migrating from Kinesis to SQS. Automated deployments with GitHub Actions CI/CD.

Raspberry Pi Kubernetes Homelab | *K3s, Docker, Prometheus, Grafana*
- Built and maintained a Kubernetes cluster on Raspberry Pi 5 with namespace isolation and RBAC for multi-tenant workloads.
- Integrated Prometheus and Grafana to enable real-time monitoring and alerting.
- Experimented with CI/CD pipelines for automated deployments into the homelab cluster.

Greenalytics | *AWS, Terraform, GitHub Actions, React, DynamoDB*
- Developed a real-time sustainability dashboard visualizing carbon emissions, waste, and energy usage.
- Automated deployment to AWS S3 and CloudFront using GitHub Actions CI/CD.
- Planned infrastructure automation with Terraform/CDK for scalable deployment.

TECHNICAL SKILLS

Cloud & DevOps: AWS (EC2, S3, IAM, CloudFront, SQS, Lambda, DynamoDB, EventBridge, SNS, Glue, Athena, CloudWatch), Docker, Terraform, Kubernetes (K3s)
Languages: Python, Bash, Go, TypeScript
Monitoring: CloudWatch, Prometheus, Grafana, Logrus
Databases: DynamoDB, MongoDB, PostgreSQL
Developer Tools: Git, GitHub Actions, Jira, Linux (Ubuntu, Debian)
Relevant Coursework: Internet of Things, Storage Systems, Virtualization, Cloud Infrastructure, Cloud Economics
Certifications: AWS Certified Cloud Practitioner – Foundational (CLF-C02, 2025)