

Umar Zaman

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TECHNICAL SKILLS

Kubernetes & Containers: GKE, AKS, K3s, Helm, Istio, Docker, Podman, GAR, ACR

Cloud & IaC: GCP, Azure, AWS (EC2, S3, IAM, Lambda), Terraform, GitHub Actions

Security & Compliance: Wiz, KSPM, STIG, Splunk

Observability: Dynatrace, Prometheus, Grafana, CloudWatch

Languages & Systems: Python, Go, Bash, Linux (RHEL, Ubuntu)

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

EXPERIENCE

Cloud & DevOps Engineer Intern

Sept. 2026 – Present

TD Bank Group – Containers — Platform & Cloud Engineering (Infrastructure & Engineering) Toronto, ON (Hybrid)

- Researching and prototyping AI agent automation to streamline provisioning of custom-config, enterprise-compliant Kubernetes clusters across 35+ platform consumer teams.
- Designing self-healing deployment agents to auto-resolve pipeline failures, targeting a reduction in cluster provisioning from 1–2 days of manual debugging to a few hours of hands-off background execution.

Cybersecurity Intern

May 2026 – Aug. 2026

TD Bank Group – Security Compliance & Operations Management (Global Security & Defence) Toronto, ON (Hybrid)

- Monitored security compliance posture across 150,000+ hosts (mainframes, servers, workstations), tracking patch and configuration baselines and triaging non-compliant findings for remediation follow-up.
- Compiled and analyzed compliance reports and data extracts from Splunk dashboards, interpreting threshold breaches to distinguish systemic non-compliance from noise and delivering defensible reporting up to CIO-level stakeholders.
- Supported Azure and GCP Configuration-as-Code compliance efforts, bridging cloud security policy with enterprise audit and compliance requirements.

Cloud & DevOps Engineer Intern

Jan. 2026 – May 2026

TD Bank Group – Containers — Platform & Cloud Engineering (Infrastructure & Engineering) Toronto, ON (Hybrid)

- Validated KSPM policies, STIG controls, and security configurations across 10+ AKS and GKE clusters via regression and negative testing, catching enforcement gaps before production promotions and surfacing an untracked STIG compliance gap escalated to engineering leads for remediation.
- Built a Python tool to verify security daemonset deployment across cluster nodes, replacing a manual QA process and adopted as the standard by the platform team.
- Managed Kubernetes cluster lifecycle (provisioning, upgrades, decommissions) across AKS and GKE, deploying Istio ingress and security tooling through Terraform CI/CD pipelines.

Cloud Engineer Intern

Jan. 2025 – Aug. 2025

Learning Mode AI

Toronto, ON (Remote)

- Built AWS infrastructure from scratch using Terraform for a microservices platform serving 200+ users, reducing infrastructure costs by 40% via right-sized dev/prod environments.
- Set up CI/CD pipelines with GitHub Actions to automate Terraform validation and deployments, reducing deployment time by 70%.

OPEN SOURCE

Podman (Red Hat) | *Go* | PR #29530, #29536

- Contributed two merged PRs to Podman, the upstream OCI container engine, adding `--quiet/-q` flags to `artifact ls` and `farm list` for header-free, scriptable output in CI pipelines.
- Iterated through maintainer code review to add end-to-end test coverage and mutually-exclusive flag validation before merge to main.

PROJECTS

Kubernetes Homelab | *kubeadm, Kubernetes, Linux, Raspberry Pi*

- Bootstrapped a Kubernetes cluster by hand with kubeadm on a Raspberry Pi, managing control-plane components, networking, and node lifecycle to study cluster internals.
- Use the cluster as a playground for deploying workloads and prototyping, building toward a custom Go operator for hands-on controller development.

EDUCATION

Sheridan College Institute of Technology and Advanced Learning

Oakville, ON

Honours Bachelor of Computer Science (Cloud Computing)

Expected 2027

Computer Systems Technology: Software Engineering Diploma

Sept. 2020 – Dec. 2023