

Ashutosh Sharma

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Professional Summary

Cloud and DevOps Engineer with hands-on experience designing scalable infrastructure using AWS, Kubernetes, and Terraform. Proven track record automating CI/CD pipelines and container-based deployments using GitHub Actions and CodePipeline. Passionate about infrastructure as code, secure cloud architecture, and developer productivity.

Experience

Cloud Engineer Co-op

May 2025 – Aug. 2025

Health Espresso (Remote)

- Built and containerized 40+ AWS Lambda functions using Python and Node.js, enabling multi-region deployment.
- Migrated legacy ZIP-based Lambdas to image-based deployment, enabling GitHub-based CI/CD workflows and reducing promotion time by over 95% (from 1 day to 15 minutes).
- Developed Terraform modules and integrated CI/CD workflows using AWS CodePipeline and CodeBuild.
- Authored Bash scripts to scaffold aliases, IAM permissions, and environment configurations dynamically.
- Used Secrets Manager and Parameter Store for secure environment and shared config management.
- Monitored and debugged application issues via CloudWatch Logs across services.
- Refactored IAM policies in Terraform to enforce least privilege and eliminate unused permissions.
- Worked closely with developers and QA teams to coordinate smooth and stable Lambda releases.

Full Stack Developer

June 2020 – Aug. 2023

Samartha International InfoSolutions

Kathmandu, Nepal

- Delivered full-stack e-commerce platforms using React, ASP.NET Core, and PostgreSQL.
- Designed and implemented CI/CD pipelines to reduce release cycles by 50%.
- Built CRM/BPM systems to streamline business operations with lead tracking and workflow automation.
- Managed infrastructure using on-prem Kubernetes across 30-server cluster on VMWare (vSphere).
- Provisioned resources, maintained deployments, and containerized workloads using Docker.

Projects

PharmaKart ([Link](#)) | Golang, gRPC, Kubernetes, Terraform, AWS, GitHub Actions, PostgreSQL Jan. 2025 – Mar. 2025

- Built cloud-native pharmacy platform with microservices for auth, order, payment, and reminders.
- Designed PostgreSQL schema, wrote DB migrations, and optimized indexing for search and order processing.
- Implemented notification system using Lambda + SNS for scheduled refill alerts.
- Integrated Stripe for secure payments; managed refunds and validations through admin dashboard.
- Developed frontend using Next.js, ShadCN, and Tailwind CSS with responsive UI components.
- Implemented JWT-based auth with refresh tokens, RBAC roles, and Zod-based input validation.
- Provisioned infra using Terraform; deployed on EKS with 99.9% uptime across environments.
- Built CI/CD pipelines using GitHub Actions and CodePipeline for zero-downtime deployment.

Education

Durham College

Oshawa, ON

Postgraduate Certificate in Cybersecurity & Cloud Computing

Sep. 2023 – Apr. 2025

- Focused on Secure Software, Cloud Security, and DevSecOps using AWS, Azure, GCP.
- Gained hands-on experience with Kubernetes, Terraform, GitHub Actions, and Jenkins.
- GPA: 4.75 / 5.0

Leeds Beckett University

Leeds, UK

BSc (Hons) Computing

Feb. 2019 – July 2022

- Covered SDLC, Web Dev, Database Design, Java, C#, Python, and ASP.NET.
- GPA: 3.8 / 4.0