Himanshu Mahajan

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PROFESSIONAL SUMMARY

Motivated **Cloud**, **DevOps**, and **Site Reliability Engineer** with hands-on experience at **LifeLabs** as a **DevOps Engineer Intern in the SRE team**. Skilled in **Terraform, Ansible, CircleCI, Azure Pipelines, Docker, Kubernetes, Helm, AWS, Azure,** and **Python**, with expertise in **infrastructure automation**, **cloud security**, **monitoring**, and **scalable deployments**. Experienced in designing **production-grade**, **secure**, and **automated infrastructure**, optimizing cost and performance, and delivering high-quality solutions through **cross-functional collaboration**. Completed a **degree** in **Software Development and Network Engineering** from **Sheridan College** with a **GPA** of **3.87/4.0**.

Professional Skills and Interests:

- **CI/CD - CircleCI, Azure Pipelines, GitHub Actions**
- **Infrastructure Automation - Terraform, Ansible**
- **Containerization - Docker**
- **Orchestration - Kubernetes, Helm**
- **Version Control - GitHub, Azure Repos**
- **Scripting - Bash, PowerShell**
- **Programming Languages - Python, TypeScript**
- **Cloud Management - AWS, Azure, Google Cloud**
- **Security - IAM, KMS, Secrets Management, OIDC**
- **Networking - VPC, Subnets, Security Groups, Load Balancers**
- **Monitoring - Prometheus, Grafana**
- **Virtualization - VMware, Hyper-V, VirtualBox**
- **Agile Methodologies (Scrum)**

EDUCATION

Computer System Tech – Software Development and Network Engineering **– Sheridan College** (Brampton, ON)
January 2023 – December 2025

- **Cumulative GPA: 3.87/4.0**

PROFESSIONAL SKILLS WITH PROJECTS DEMONSTRATED

LifeLabs, Canada

January 2024 - April 2024

*A **diagnostics leader** with over ~**6500** employees, nearly ~**$970 million** in revenue, serving more than **~7 million** Canadians annually across **~3** provinces.*

DevOps Engineer Intern – (Kubernetes and Cloud Automation)

- Orchestrated the development of automation scripts, leading to a remarkable 30% reduction in infrastructural costs.
- Collaborated within a cross-functional team to devise solutions for stress testing infrastructure, resulting in the creation of reusable Python scripts for efficient performance and cost optimization.
- Utilized Docker and Kubernetes to containerize and orchestrate applications for seamless deployment and scaling, ensuring high availability and optimized resource usage.
- Led the creation and deployment of Dockerized applications, ensuring efficient containerization and orchestration for streamlined deployment processes.
- Developed and deployed infrastructure on Azure, leveraging Terraform for automation and integrating

Azure services like Azure Container Registry for Docker image storage, Azure Container Instances (ACI) for container deployment, and Azure Key Vault for secure secrets management.

Key Projects:

- **Site Performance and Site Loads with Locust Python:**
    - Developed a reusable Locust Python script to conduct comprehensive infrastructure testing, providing valuable insights for performance evaluation and cost reduction strategies.
    - Established and deployed Azure infrastructure using Terraform, integrating Azure Container Registry for Docker image storage and Azure Key Vault for secure secrets management. Simulated traffic of 50,000 users to stress-test the infrastructure and optimize Kubernetes pod scaling.
- **SRE Adhocs with Selenium Python:**
    - Engineered a reusable Selenium Python script for web scraping, following industry best practices to extract and format webpage data for streamlined report generation.
    - Implemented secrets management techniques by leveraging Azure Key Vault to securely store and retrieve credentials for Azure-based resources. In Python, used the python-dotenv module to securely load environment variables, ensuring sensitive data (such as API keys and credentials) is never hardcoded or exposed in source code. This approach improved security by encrypting and managing secrets both in the cloud and within the Python application.

ADDITIONAL PROJECTS I HAVE WORKED ON

Portfolio Infrastructure Platform (Production-Grade AWS Deployment)
December 2025- January 2026

Links: Portfolio Website | Architecture Diagram | GitHub (private, viewable on request)

*Built a **production-grade AWS infrastructure platform** using **Terraform**, **AWS**, **CircleCI**, **Docker**, and **GitOps** practices to securely deploy and operate a **portfolio** application.*

- Architected a two-repository Terraform platform, separating an Admin layer (IAM role assumption, KMS keys, remote Terraform backend) from a Workload layer that securely provisions application infrastructure.
- Implemented OIDC-based authentication in CircleCI, eliminating long-lived credentials and enforcing least-privilege, identity-based access for all infrastructure deployments.
- Built reusable Terraform modules to provision secure AWS networking (VPC, subnets, IGW, NAT, route tables, security groups, EIPs) along with EC2 compute and Amazon ECR using assumed roles.
- Applied GitOps principles by isolating application source code in a separate repository, enabling pipelines to build, test, and push immutable container images to ECR using content-addressable digests.
- Automated application updates via AWS Systems Manager (SSM), deploying containers by image digest to ensure traceable, auditable, and rollback-safe releases.