Himanshu Mahajan

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PROFESSIONAL SUMMARY

Motivated and detail-oriented **Cloud**, **DevOps**, and **Site Reliability Engineer** with hands-on experience at **LifeLabs** as a **DevOps Engineer Intern in the SRE team**, specializing in **Kubernetes**, **Docker**, **Terraform**, and **AWS**. Proven ability to drive cost savings and optimize infrastructure through **automation**, **scripting**, and **containerization**. Skilled in **CI/CD pipelines**, cloud management, and performance optimization. Strong background in working with **cross-functional teams** to deliver high-quality solutions, with expertise in **cloud security**, monitoring, and **infrastructure automation**. Currently pursuing a degree in **Software Development and Network Engineering** at **Sheridan College** with a **GPA of 3.87/4.0**.

Professional Skills and Interests:

- Azure Pipelines, Jenkins, GitHub Actions for CI/CD
- Terraform, Ansible for Infrastructure Automation
- Docker for Containerization
- Kubernetes as an Orchestration Tool
- Version Control Git/Gitlab, Azure Repos
- Scripting Bash, PowerShell
- Agile Methodologies (Scrum)

- Cloud Management AWS, Azure, Google Cloud
- Monitoring Prometheus, Grafana
- Security IAM, Secrets Management
- Networking DNS, DHCP, Load Balancers, Subnets
- Virtualization VMware, Hyper-V, VirtualBox
- Java, JavaScript, Python
- Database MySQL, PostgreSQL, MongoDB

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

Notion-Slack Clone Deployment October 2024- December 2024

Developed a **Notion-Slack hybrid app**, leveraging **Kubernetes, Docker, Terraform**, and **AWS** to streamline deployment and centralize team communication and documentation workflows.

- Deployed a Notion-Slack hybrid application leveraging AWS as the cloud provider and Amazon EKS for managing Kubernetes clusters, ensuring scalability and high availability.
- Automated the provisioning of cloud infrastructure using Terraform, achieving reproducibility, reducing deployment time by 30%, and minimizing manual errors.
- Containerized the application using Docker, streamlining development and deployment workflows, and integrated CI/CD pipelines for automated updates with minimal downtime.
- Implemented Prometheus and Grafana for real-time monitoring, reducing response time to issues by 40% and ensuring 99.9% uptime of the application.