

Professional Summary

Results-driven Engineer with 2+ years of experience designing, automating and maintaining robust infrastructure and CI\CD pipelines. Proven ability to deploy container-based workloads using Kubernetes and Docker, and to implement reliable automation with Terraform and Python/Bash scripting. Familiar with Ansible, Helm and OpenShift through personal projects. Bilingual in Arabic (native) and English (fluent)

Professional Experience

Software Engineer - Machine Learning

Jan 2024 – Dec 2024

University of Guelph

Guelph, Ontario

- Designed and maintained Kubernetes clusters for edge-cloud deployment of SwinJSCC Transformer models, reducing end-to-end latency by 29% and network bandwidth usage by 30%
- Built automated CI\CD pipelines in GitLab and Jenkins, integrating Docker containers and custom scripts for seamless model updates and rollbacks
- Developed Python/Bash scripts for system patching, security hardening and automated backup procedures across linux environments

Software Developer - Robotics and Full-stack

Oct 2022 – Oct 2023

University of Guelph - Robotics Institute

Guelph, Ontario

- Implemented ROS2-based server-client architecture and a utomated deployment pipelines using Docker and Terraform on AWS EC2
- Provisioned and configured IoT devices (ESP32) and linux servers with custom Bash scripts to ensure reproducible environments
- Orchestrated CI\CD for React Native and Node.js application via Jenkins, enabling zero-downtime releases and reliable rollback strategies

Information Technology Analyst

Jul 2020 – Dec 2020

Kitchener Downtown Community Health Centre - SRHC

Kitchener, Ontario

- Adminstered Linux servers, Samba file shares and Fortigate firewall/VPN configurations, strengthening network security and remote access availability
- Automated backup and redundancy strategies with shell scritps, reducing recovery time objectives (RTO) by 40%
- Led troubleshooting for system alerts and support tickets, achieving 95% SLA compliance for incident resolution

Technical Skills

Languages: C/C++, Python, Rust, Java, SQL, Bash, JavaScript, HTML, CSS, CMake
Frameworks: PyTorch, TensorFlow, Node.js, React, Express.js, ROS
Cloud and DevOps: AWS, Docker, Kubernetes, Terraform, Jenkins, PostgreSQL, MongoDB, SQLite
Tools and Protocols: Git, Grafana, Prometheus, Postman, Flask, Swagger, Jira, CMake, HTTP, TCP

Projects

Full-stack application Built microservices-based Java backend and React frontend; containerized with Docker and deployed via self-hosted Jenkins pipeline

DevOps Homelab Automated multi-node Kubernetes clusters with Terraform and deployed CI\CD pipelines using GitLab and Jenkins

Certifications

Certified Kubernetes Adminstrator (CKA) | *In progress*

AWS Solutions Architect | *Nov 2024*

Education

University of Guelph | *MASc. - Computer Engineering*

University of Guelph | *B.Comp. - Computer Science*

University of Guelph | *B.Eng. - Computer Engineering*