

# AKSHAY SATISH

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## EDUCATION

University of Waterloo

September 2023 –

BASc. in Computer Engineering

Waterloo, ON

- **Coursework:** Data Structures & Algorithms (C++), Systems Programming (C), Computer Networks

## TECHNICAL SKILLS

**Languages:** Go, Python, Bash, PowerShell, C/C++, Java, JavaScript/TypeScript, SQL

**DevOps & Infrastructure:** Linux, Docker, Kubernetes, Terraform, GitHub Actions, CircleCI, Azure, AWS, GCP, GitLab

**Tools & Frameworks:** Kafka, Sentry, Postgres, Firebase, MCP, MongoDB, MySQL, Django, Spring, OpenAI, LangChain

**Certifications:** Microsoft Azure AI Fundamentals: AI-900, Nokia NSP "Scrumptious Team Award"

## EXPERIENCE

Scrawlr | AWS, Terraform, MCP, Postgres, GitHub Actions CI, Sentry

Vancouver, BC

DevOps & Infrastructure Intern

May 2026 – Present

- Scaled **Poppy AI**, an **MCP-based GitHub Actions** PR reviewer, to process **1,000+** line diffs in seconds for **50+** company-wide users by implementing concurrent file parsing, embeddings-based deduplication, and **OpenAI** APIs.
- Streamlined cross-repository observability by integrating **Sentry** and **Slack**, intelligently deduplicating and routing **100+** critical system alerts weekly to accelerate developer debugging workflows.
- Resolved spiraling OOM failures and engineered fault-tolerant infrastructure for autonomous web scrapers by deploying concurrent task processing and strict memory limits on **AWS ECS** using **Terraform**.
- Eliminated environment access bottlenecks for 10+ engineers by building automated local dev tooling with **1Password CLI**, **Docker**, and **Postgres**.

Nokia | Docker, Linux, Kafka, Azure, FastAPI, MySQL

Ottawa, ON

Network Automation Intern

September 2025 – December 2025

- Engineered an Agentic AI network alarm resolution pipeline using **FastAPI**, **LangChain** and **Kafka**, utilizing **Azure Table Storage** for shared persistent state to enable robust data-loss recovery across VM instances.
- Accelerated ticket resolution by **67%** by generating and publishing **100+** diagnostic worknotes per second.
- Deployed containerized **microservices** to **Linux** virtual machines via **Docker Compose**, configuring **systemd** to guarantee automatic container recovery and zero-downtime service continuity.

Software Developer Intern

January 2025 – April 2025

- Architected **GitLab CI/CD** pipelines and containerized legacy applications using **Docker**, directly aligning development lifecycles with modern **DevOps** best practices.
- Automated **MySQL** database administration via **Python** scripts and upgraded SMTP authorization to **OAuth2** via **Microsoft Azure Graph API** for scalable notification systems.

Zafin | Docker Compose, React, Spring, Django, MongoDB

Toronto, ON

Technical Consultant Intern

May 2024 – August 2024

- Engineered a scalable, **cloud-native full-stack rules engine** using **React**, **Spring** and **Django** and **MongoDB** to process business rules with **<1ms** execution times, deployed via **Docker Compose**.

## PROJECTS

WiFi Sentinel | Go, SQLite, Firebase Firestore, Telemetry, Cloud Sync

- Engineered a lightweight network observability daemon in **Go** to continuously monitor latency and signal health, maintaining sub-1% CPU and <20MB RAM operational overhead.
- Built an offline-resilient hybrid telemetry pipeline using **SQLite** for local aggregation and a thread-safe ring buffer to batch-flush data to **Firebase** upon network reconnection, guaranteeing zero data loss.

Terraform-Based EKS Platform | Terraform, Kubernetes, AWS EKS, Helm

- Provisioned a production-grade **AWS EKS** platform using **Terraform** (IaC), featuring modular **VPC**, **IAM**, and **EKS** configurations supporting multi-environment delivery via **Helm**.

Zero-Trust Network Security Implementation | Kubernetes NetworkPolicies, Bash

- Enforced **Kubernetes NetworkPolicies** to establish a zero-trust architecture, robustly isolating frontend, backend, and database namespaces, validated via automated **Bash** connectivity scripts.