

ELHAN IQBAL

Vancouver, British Columbia, Canada

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Education

The University of British Columbia

Sep 2021 – May 2026

*Bachelor of Applied Science in **Integrated Engineering** (Computer & Electrical Engineering)*

Vancouver, BC

- **Academic Awards:** Distinction; Outstanding International Student Scholarship; Dean's Honor List
- **Engineering Awards:** Top 3 @ nwHacks 2024; 1st Place @ CSME 2025 National Design Competition; Runner-Up and Biggest Pivot Since Pitch @ 2024 Canada Tech Futures Challenge; 3rd Place @ 2024 AEAC National UAS Competition
- **Courses:** Systems Software, Computer Networking, Cybersecurity, Software Design, AI/ML, Blockchain

Technical Skills

Languages: Python, TypeScript, JavaScript, C#, C, Bash, SQL, Solidity, HTML/CSS

Frameworks: FastAPI, Flask, Node.js, React, Vue.js, REST APIs, MongoDB, Elasticsearch, Pytest, Selenium, PyTorch, Scikit-learn, Pandas, NumPy, Claude API, Hardhat

Cloud/SRE/DevOps: AWS, GCP, Terraform, Docker, Kubernetes, Helm, GitHub Actions, ArgoCD, Grafana, CI/CD

Systems/Other: Linux, Networking, Raspberry Pi, ESP32, Klipper, Tailscale, LLMs, Smart Contracts, KiCad

Technical Work Experience

Samsung Electronics

Jan 2025 – Aug 2025

Cloud DevOps Engineer Co-op

Vancouver, BC

- Raised IaC coverage to 90%+ and improved observability across 8+ GCP projects by building a Python Terraform discovery, drift detection, and import-generation pipeline for 300+ unmanaged resources
- Advised 100+ developers across 4+ global sites on IAM, networking, Kubernetes, and CI/CD best practices while supporting production big-data platform operations and resource provisioning
- Led incident response and authored RCAs for BigQuery slot starvation, Grafana observability failures, CI/CD regressions, IAM drift, and SQL bottlenecks, partnering with platform and engineering teams to resolve issues
- Reduced Docker image size from 2GB to 55MB via multi-stage builds, cutting CI runtime by 65%
- Engineered Kubernetes deployments for internal services such as Elasticsearch using Helm and GitOps workflows

Samsung Electronics

May 2024 – Dec 2024

Software Developer & Technical Writer Co-op

Vancouver, BC

- Published 60+ Samsung Knox B2B knowledge base articles translating complex technical features for external partner audiences; nominated for UBC APSC Co-op Student of the Year 2024
- Built a TypeScript VSCode extension with AI suggestions, broken-link detection, Markdown linting, and style enforcement, improving quality across 100+ articles
- Developed a Python automation tool using Selenium, Pandas, and NLTK to evaluate B2B partner requests, reducing review time from 15 minutes to 5 seconds
- Implemented frontend & backend components for a Selenium based test analytics platform using Vue.js, Flask, Docker, AWS DocumentDB, Elasticsearch, and REST APIs

The University of British Columbia

Jan 2026 – May 2026

Machine Learning Privacy Research Assistant

Vancouver, BC

- Trained PyTorch shadow models and implemented membership inference attacks to evaluate ML privacy leakage; improved low-FPR attack performance using statistical scoring and multivariate feature analysis

Technical Projects

HAVEN-Smart Tool Loaning System | *FastAPI, React, Docker, Tailscale, Klipper*

Sep 2025 – Apr 2026

- Gathered requirements from 200+ student users and owned software and electrical system design, spanning React kiosk UI, FastAPI backend, Docker deployment, Raspberry Pi control, Klipper macros, and PCB design

Authorization-AUTHD | *Solidity, Hardhat, OpenZeppelin, React, Sepolia*

April 2026

- Built and deployed a protocol on top of ERC20, enabling capped delegated approvals through registered client contracts, with revocation flows, dynamic registration fees, React demo UI, and smart contract tests

Medical Waste Management System | *Top 3 @ nwHacks* | *Node.js, MongoDB, Auth0, MappedIn*

Jan 2024

- Built a hospital logistics platform with indoor mapping, alerts, dashboards, and biomedical waste workflow optimization