

Omar Moursy, P.Eng

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Software Engineer with experience in DevOps, Full-stack Development, and Data Engineering

EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science (**GPA: 4.0/4.0**)

Remote

August 2024 – May 2026

University of British Columbia

Bachelor of Applied Science in Electrical Engineering (**GPA: 3.8/4.0**)

Vancouver, BC

September 2016 – May 2020

TECHNICAL SKILLS

Languages: Python, Java, Kotlin, C/C++, C#, SQL, PySpark, PowerShell, JavaScript, TypeScript

DevOps & Cloud: Git, Gerrit, Jenkins, GitHub Actions, CI/CD, Docker, Azure, AWS, Linux/Unix

Frameworks & Data: Node.js, React, LLMs (Hugging Face), Pandas, Grafana, PowerBI, Postgres, Redis

EXPERIENCE

Software Development Engineer Intern

January 2026 – Present

SAP

Vancouver, BC

- Owned enterprise **CI/CD pipeline** optimization; analyzed **Jenkins/Gerrit** bottlenecks and implemented automated testing protocols, reducing deployment failures by 40% and improving release velocity by 30%.
- Proactively identified 15+ critical **security vulnerabilities** through systematic code reviews; implemented automated security scanning, eliminating 100% of vulnerabilities for 50,000+ enterprise users.

Systems & DevOps Intern

September 2025 – December 2025

Teck Resources

Vancouver, BC

- Owned design and implementation of **Machine Learning** matching pipeline using **Python** and **Qwen LLM** to standardize 10,000+ telemetry tags, accelerating vendor migration by 6 weeks.
- Led comprehensive software license audit across **Rockwell/Honeywell** systems; identified unused perpetual licenses and optimized allocation, recovering **\$180,000+** in operational costs.
- Engineered real-time **Grafana** dashboards for mining haul cycles by reverse-engineering legacy **SQL** databases; reduced failure resolution from 4 hours to 15 minutes, improving efficiency by 25%.
- Scripted multi-domain **Active Directory** queries with **PowerShell** and visualized hierarchies in **PowerBI** to resolve membership redundancies and enhance operational security.

Software Engineering Intern

May 2024 – August 2024

Daweeny

Vancouver, BC

- Integrated Zoom's API using **TypeScript** and **Node.js**, automating consultations for 50+ weekly telehealth sessions.
- Implemented secure **OAuth 2.0** authentication with **Redis** token caching, improving system efficiency by 35%.
- Built **Express/Postgres** backend integration with **Prisma ORM**, reducing scheduling errors by 40% via automated validation.

RF Systems and Automation Designer

July 2020 – April 2024

Rogers Communications

Vancouver, BC

- Designed automation tools using **Python**, **Pandas** and **Selenium** to scrape network KPIs and process data, reducing integration errors by 40%.
- Led network expansion project reaching 1.5M new users, collaborating with cross-functional teams to ensure infrastructure readiness.
- Created **Python** scripts to automate documentation generation for engineering reports, reducing manual effort by 60%.

PROJECTS

Multithreaded RPC System | C, Sockets, RPC, Multithreading

August 2024

- Created concurrent file transfer server with **sockets** and **Sun RPC**, improving throughput by 30%.
- Developed proxy server with shared memory **IPC** and thread synchronization using **mutexes**.

AI Trading System | Python, ML, NumPy, SciPy, pandas

August 2024

- Developed Q-Learning model and portfolio optimizer maximizing Sharpe ratio, outperforming benchmarks.
- Built market simulator with technical indicators (Bollinger Bands, RSI, MACD) for algorithmic trading.