

Ibrahim Khawar

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EDUCATION

University of Toronto

Bachelor of Applied Science in Engineering Science

Toronto, ON

Expected May 2030

- Recipient of the **Schulich Leader Scholarship**, a full-ride merit scholarship.
- Elected Class Representative, advocating student concerns in weekly meetings with academic leadership.

EXPERIENCE

Founder, CEO & Chief Engineer

September 2022 – September 2025

Tablingos

Toronto, ON

- Built a SaaS platform for CSV validation, normalization, and enterprise data onboarding through a self-serve web interface.
- Engineered a full-stack application in TypeScript and Python capable of processing **100M+** rows in **under 2 minutes** using optimized I/O and parallelized data pipelines.
- Designed scalable backend workflows for large-file ingestion, validation, and normalization, supporting enterprise onboarding use cases.
- Secured **Microsoft for Startups** funding and credits valued at **\$500,000**.

Software Engineer Intern

July 2024 – August 2024

Nokia

Toronto, ON

- Built Python backend services for Nokia's Vulnerability Assessment and Management (VAMS) API.
- Automated vulnerability report generation, improving the speed and consistency of security analysis workflows.
- Developed end-to-end stateful property-based tests with Hypothesis to improve API reliability and edge-case coverage.

Software Engineer & Research Volunteer

June 2024 – October 2024

Holland Bloorview Kids Rehabilitation Hospital, PROPEL Lab

Toronto, ON

- Designed and implemented a gait-analysis algorithm for an iOS rehabilitation app using **two** ankle-mounted Movella DOT sensors.
- Built a system for out-of-clinic gait monitoring and rehabilitation, enabling real-time collection and analysis of sensor data.
- Ran end-to-end user testing, gathered feedback, and supported clinical gait data collection in collaboration with the research team.

Software Engineer Intern

June 2021 – August 2022

LogiSense

Cambridge, ON

- Developed a Terraform provider in Go to enable infrastructure-as-code configuration for billing platform business settings.
- Designed provider schemas and API integrations that streamlined provisioning workflows and reduced errors caused by manual configuration.
- Prepared and executed unit and functional test cases for core billing software to improve release quality and reliability.

PROJECTS

Pocket Prosthetic (Hack the 6ix) | Swift, Python, LiDAR

July 2024 – August 2024

- Built a mobile app that lets users scan residual limbs with mobile LiDAR sensors to support prosthetic creation.
- Engineered a faster digital alternative to traditional plaster molding workflows still used in many clinics.
- Won **Hack the 6ix** and presented the project to researchers at Holland Bloorview Kids Rehabilitation Hospital.

National Big Data Challenge | Python, ML, Data Analysis

November 2023 – February 2024

- Authored a research paper on the effects of urban heat islands on monarch butterfly population dynamics.
- Analyzed large public biodiversity and urban datasets using Python to identify environmental patterns and population trends.
- Research was published by **Canadian Science Publishing** and received the **CCUNESCO Award (\$1,000)**.

TECHNICAL SKILLS

Languages: Python, TypeScript, Go, Java, C, Swift, SQL (PostgreSQL), LaTeX

Backend & Infrastructure: Node.js, Terraform, Docker, AWS

Data & ML: pandas, NumPy, Matplotlib, PyTorch, TensorFlow

Frontend: React, Tailwind, Next, Expo

Testing & Tools: Git, Hypothesis, VS Code, Cursor, Codex