

FAISAL ABUOSBEH

☎ 437-993-0909 ✉ faisal.abuosbeh@uwaterloo.ca 🔗 [linkedin.com/in/faisal-abuosbeh](https://www.linkedin.com/in/faisal-abuosbeh) 🌐 github.com/faisal4-27

Education

University of Waterloo

Bachelor of Applied Science-Systems Design Engineering

- 3.8/4.0 GPA

Expected Grad: 2030

Waterloo, Ontario

Experience

AI Software Developer

Jan 2026 – April 2026

Cyntry *Mississauga, Ontario*

- Built MFA, a risk register, a compliance calendar, and a multi-framework dashboard for a multi-tenant SaaS platform using **TypeScript, Node.js (Express), and React**, reducing consultant time by up to **50%**.
- Designed and implemented **25+ REST API endpoints** to support user activity, assessments, and platform features, with **PostgreSQL** providing secure and reliable data storage.
- Deployed application updates to a **DigitalOcean** production environment, managing environment variables (including Mailgun email delivery), custom domain configuration, and **DigitalOcean Spaces** object storage for file/image uploads; used **Docker** to run, monitor, and troubleshoot containers during testing.
- Prototyped UI for the compliance calendar and risk register in **Figma** prior to implementation, enabling faster design iteration and a smoother design-to-code handoff.

Teaching Assistant

September 2024 – January 2025

Saint Joseph S.S.

Mississauga, Ontario

- Supported a grade 9 science teacher in a class of **30+** students by assisting during lessons, grading **20+** assignments and creating interactive activities like Kahoot quizzes.
- Provided one-on-one support to students struggling with course material to help them stay on track and succeed.
- Independently planned and taught a full lesson as a final project, including developing the slideshow, in-class activities, and an assignment.
- Strengthened leadership, communication, and organizational skills through hands-on teaching and classroom involvement.

Pharmacy Technician

September 2023 – August 2025

Marketplace Pharmacy

Milton, Ontario

- Received vendor shipments with **75+** products and accurately labeled products with appropriate price tags.
- Self-taught and proficiently utilized complex pharmacy software (Fillware) to review and update customer profiles and medical histories.
- Delivered attentive, friendly service at checkout, resolving patient questions and prescription concerns on the spot to ensure a smooth, positive experience.

Soccer Coach & Referee

May 2023 – June 2025

Ontario Soccer

Mississauga, Ontario

- Coordinated a team of **8** players in weekly 5v5 soccer games, applying leadership and organizational skills.
- Managed game strategy, including formations, substitutions, and tactics.
- Promoted an inclusive and engaging environment, ensuring all players enjoyed and participated regardless of skill level.
- Officiated **75+** matches spanning age divisions from **U8 to U15**, applying the Laws of the Game to ensure fair and safe play.
- Managed high-stress, fast-paced match environments as an official, making real-time rule calls and defusing conflicts among players, coaches, and spectators.

Projects

📍🌐 Route Runner | *Python, FastAPI, JavaScript, Leaflet.js, REST APIs*

May 2026

- Built a full-stack running route generator with a FastAPI backend and Leaflet.js frontend, letting users generate GPS-accurate loop routes from any map location.
- Integrated **3** external REST APIs (OSRM, Open-Meteo, Overpass) to enrich routes with road-accurate paths, elevation gain/loss, and traffic signal counts.
- Implemented an iterative radius-scaling algorithm that repeatedly adjusts circular waypoints and re-queries OSRM until the generated loop is within **8%** of the user's target distance.

Pearson Airport Taxi Optimization | *Python, Machine Learning, NumPy, GeoPandas, Matplotlib*

March 2026

- Won the Industry 4.0 Case Competition by developing a data-driven solution to optimize taxiing at Pearson Airport.
- Trained a CNN-based machine learning model on real flight data to predict runway congestion before aircraft landing, enabling proactive route decisions.
- Optimized gate taxi routes dynamically by applying congestion predictions to avoid high-traffic areas, reducing overall ground movement delays.

Skills

Languages: Python, Javascript, HTML/CSS, TypeScript, Java, C++, SQL.

Frameworks/Libraries: React, Express, Next.js, Fast API, Flask, Django

Developer Tools/Frameworks: Git, GitHub, VS Code, Cursor, Docker, AWS, Azure, Digital Ocean, Figma.