

John Boulanger

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Canadian citizen · TN-eligible (no H-1B lottery)

EDUCATION

University of Toronto, Toronto, ON

Apr 2026

BASc in Computer Engineering + Professional Experience Year (PEY Co-op)

Certificate in Engineering Business

GPA: 3.90/4.00 · Dean's Honour List, 2021–2026 · Graduated with High Honours

WORK EXPERIENCE

Novi Labs (formerly Turing Analytics), Calgary, AB

Jul 2026 – Present

Associate Software Developer

React, TypeScript, Rust, Go, C#

- Expanded EVA, the company's oil and gas analytics web app, for U.S. clients after the Novi Labs acquisition by porting Novi Intelligence's rig and frac crew layers and county and township grids
- Gave 1,000+ users across 38 energy companies one-click access to production, EUR and well-spacing data by building a well summary component in EVA

Turing Analytics, Calgary, AB

May 2024 – Apr 2025

Software Developer Intern (PEY Co-op)

React, TypeScript, Rust, Go, C#

- Improved how engineers style and view geographic data in EVA by building layer-based polygon bins and hierarchical shapefile color styling across the shapefile and map services
- Shipped features and bug fixes every sprint across EVA's frontend and backend services, spanning data imports, charting and midstream analytics

Teine Energy Ltd., Calgary, AB

May 2023 – Aug 2023

Data Engineer Intern

Python, Databricks, Power BI

- Gave 50+ non-technical staff self-serve access to key operational metrics by building dashboards on large internal datasets
- Cut data preparation from hours to minutes by building a tool that automatically cleans malformed Excel data and restructures it into standard formats

PROJECTS

Wildfire Detection System, Capstone Design Team Lead

Python, PyTorch, React, TypeScript, AWS

- Led a capstone team building a drone-based wildfire detection system, designing the ML pipeline that fuses RGB, IR and UV camera data with flight telemetry to flag fires early
- Built a real-time AWS pipeline for drone data and the dashboard that displays it, giving operators a live map of detection events

Dijkstreet, Lead Developer

C++, GTK, OpenStreetMap

- Led development of a mapping application that renders road networks and points of interest for any city worldwide from large OpenStreetMap datasets
- Implemented A* pathfinding over road graphs with tens of thousands of intersections to compute optimal commuter routes

LEADERSHIP AND ATHLETICS

University of Toronto Varsity Blues Squash, Varsity Athlete

Toronto, ON

- Helped lead the team to four Ontario University Athletics (OUA) silver medals, setting the standard for training discipline while balancing varsity competition with a full engineering course load

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C++, C, Rust, Go, C#

Web & Cloud: React, Node.js, Express, REST APIs, WebSockets, AWS, Git

Data & ML: PyTorch, scikit-learn, Databricks, Power BI, SQLite