

Bader Aljabri

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EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science (Waterloo–Laurier Double Degree)

2024 – 2029

- **Coursework:** Algorithm Design, Sequential Programs, Functional Programming, Data Structures

Wilfrid Laurier University

Waterloo, ON

Bachelor of Business Administration (Waterloo–Laurier Double Degree)

2024 – 2029

- **President's Gold Scholarship** (\$20,000) | 95%+ average

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, SQL, C++, C, Rust, Java

Libraries/Frameworks: FastAPI, React, Next.js, Node.js, PyTorch, Pandas

Cloud/Security: AWS, Postgres, Redis, Modal, Vercel, SOC 2, HECVAT, IAM

Tools/Technologies: Claude Code, Codex, MCP, OpenAI API, Gemini API, Vector DBs (Supabase), Docker, Git

EXPERIENCE

Software Engineer

Jan. 2026 – Apr. 2026

StartUp Lab | TypeScript, React, Next.js, IAM, PSIA, HECVAT, SOC 2, Gemini API

Waterloo, ON

- Owned one of the platform's three user roles end to end, from data model to UI, serving **1,000+ users**
- Designed the internal CRM system StartUp Lab staff use to manage students, employers, and projects
- Built a **9-state** application life-cycle into an intuitive student dashboard using React, providing real-time updates
- Secured sensitive data with a **role-gated CRM**, letting admins run a three-sided marketplace in real time
- Drafted the platform's **HECVAT** and **PSIA** assessments, collecting evidence on data handling across the stack
- Scaled weekly processing capacity from **100 to 2,000 clients** by engineering an **AI-driven processing pipeline**

Software Engineer

June 2024 – Jan. 2026

Patterned AI | Python, FastAPI, TypeScript, React, MCP, LLMs, CI/CD

London, UK

- Drove **over 15,000 monthly active users** by building and shipping a full-stack **Canva application**
- Owned **Motif Studio**, a client-requested feature, end to end: a **FastAPI job service** with cancellation and per-job isolation, a **Gemini LLM** reporting step, and a React/TypeScript editor
- Built a frozen **eval benchmark** gating every model release, blocking a higher-scoring candidate that regressed
- Cut the company's **release cycle by 5x** by designing task-specific Claude sub-agents, skills, and workflows
- Designed fail-safe mechanisms (checkpointing, retries, resumable runs) that **cut pipeline failures by 95%**

DESIGN TEAMS

Software Infrastructure Lead

Feb. 2026 – Present

WatArrow (UW SAE Aero Design) | Directus, DigitalOcean, Postgres, Redis, SSO

Waterloo, ON

- Created and maintained the internal platform/**CRM system** used by the team; also used for team's website

Machine Learning Engineer

May 2026 – Present

Wat Street (UW Quantitative Finance) | PyTorch, NumPy, Graph Neural Networks

Waterloo, ON

- Engineered the **graph-attention** module in **PyTorch** for a **GAT+LSTM** volatility contagion model
- Designed Pandas data pipeline to process **1.9M+ rows** of S&P 500 data into structured inputs for **ML training**

PROJECTS

Whisper4Windows | 50 GitHub ★'s | Open Source | *Rust, Tauri, Python, CUDA, C++, WebRTC*

- Developed a **GPU-powered** voice dictation app that transcribes 30s of speech in under 1s via model caching
- Cut model-loading failures caused by hardware misalignment by gracefully degrading to CPU inference

AutoCAD Claude

- Integrated Claude with AutoCAD through an in-process **.NET 8 plugin** (ObjectARX) that exposes a localhost JSON protocol, giving the AI clean **tool-style calls** into live drawings, **automating the design workflow**
- Designed **visual feedback loops to ensure success and quality** of agent's work before continuing

COMPETITIONS & CERTIFICATIONS

Canadian Computing Competition - Senior (Top of school), PEO High School Coding Contest - (1st Place)

Hack The North, AWS Cloud Practitioner Certificate (ongoing), PEO Athletics Competition - (1st Place)