Bader Aljabri

+1 (647) 237 1711 | BaderJabri.15@gmail.com | /BaderAljabri | /BaderJabri | BaderJabri.ca

Education

University of Waterloo & Wilfrid Laurier University 2024 - 2029

BCS/BBA Bachelor of Computer Science + Bachelor of Business Administration, Co-op Program (Double Degree)

Relevant Coursework: Data Structures • Algorithm Design • Software Development • Functional Programming
Awards: President's Gold Scholarship ($4,000/yr - $20,000) **95%+** Average

Experience

Patterned AI | Software Engineer Intern **2024 - Present**

- Drove **1,500+ installations** and **600+ active users** in the first month of launching Tile-To-Pattern, a full-stack Node.js and **React** Canva application that produces editable patterns given a tile-able image.
- Curated **150k**+ images for AI training through a sitemap-driven **scraping and filtering pipeline** (JavaScript + Python)
- Built a **modular** backend **image-processing** system, applying edge adjacency checks to eliminate non-seamless tiles, enhancing **dataset integrity** for better **AI model training**.
- **Optimized** scripts to process **30k+ images/hour** across **10 parallel workers,** with fail-safe mechanisms, boosting throughput by over **10x** and cutting failures by **95%.**
- Boosted the company's release cycle **by 5 times** by leveraging **Agentic automations** powered by various **MCPs.** Previous Canva application took months to develop compared to Tile-To-Pattern completion within **3 weeks**.

Skills/Tools: React • JavaScript • Python • Git • Node.js • TypeScript • HTML/CSS • MCP • LLMs • CI/CD

Projects

Whisper4Windows | GPU-Powered Local Transcription App **OCT 2025**

- Developed privacy focused desktop speech-to-text application using **client-server** (two-process) architecture (Python FastAPI backend + **Rust/Tauri** frontend), enabling **100% local** transcription with zero cloud dependencies.
- Reduced model loading failures on diverse hardware configurations by implementing automatic GPU-to-CPU fallback logic, detecting CUDA availability via CTranslate2 queries, and adjusting compute precision (float16→int8) as required
- Achieved seamless text injection into any Windows text field without character-by-character simulation by leveraging **Win32 clipboard APIs** enabling Ctrl+V simulation and clipboard preservation.

Skills/Tools: Rust • Tauri • Python • CUDA • Windows API • WebRTC • Git • C++ • AI/ML • cuDNN • CI/CD

Plotit AI | CSV visualizer | Canva AI and Integrations Hackathon **AUG 2024**

- Developed an **AI-powered** Canva app that allows users to upload **CSV files** and receive automatically generated editable graphs, reducing chart generation time **from 20 min to 15 sec** compared to manual creation.
- Built and optimized RESTful **request/response flows** linking the Canva UI with the backend, enabling interactive Plotly visualizations and **reducing latency** for large CSV datasets.

Skills/Tools: React • JavaScript • Git • Node.js • TypeScript • HTML/CSS • FastAPI • MCP • LLMs

Volunteering | MAC Alhuda Schools 2019 - 2023

- Volunteered at a weekend school for **4+ years**, assisting teachers and staff while building strong **communication** and **interpersonal** skills.
- Coordinated daily operations for **400+ students and staff** by pivoting between **last-minute** classroom support, front-office duties, facility setup, and assisting teachers, illustrating a high level of **adaptability**.

Certifications & Awards

- Canadian Computing Competition - Senior **(Top of school)** **FEB 2024**
- **AWS Cloud Practitioner Certificate** **(In Progress)**
- **PEO** High School **Coding Contest** - **(1st Place)** (2nd Place in the 2022 contest) **NOV 2023**
- Career Development Certificate - (Wilfrid Laurier University) **MAR 2025**
- PEO Mathletics Competition - **(1st Place)** **NOV 2019**