Bader Aljabri

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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 **1,200+ installations** and **500+ active users** in the first month of launching Tile-To-Pattern, a Node.js Canva application that produces editable patterns given a tile-able image.
- Curated **150k+** images for AI training through a sitemap-driven **scraping & filtering pipeline** (JavaScript + Python)
- Built **image processing** systems applying edge-adjacency checks to identify seamless tiles, enhancing **dataset integrity**
- **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 company production **efficiency by over 500%** through the utilization of **Agentic automations** powered by various **Model Context Protocols** (MCP)**,** shown in speed improvements compared with a previous project (PlotitAI)
- Streamlined collaboration by using **Git** to isolate features, reduced merge conflicts via feature-branch + PR workflow.
- Developed an **AI-powered** Canva app (PlotitAI) that allows users to upload **CSV files** and receive relevant generated editable graphs, reducing chart generation time **from 20 min to 15 sec** compared to manual generation.
- Built and optimized **request/response flows** linking Canva UI with a **FastAPI** backend, enabling interactive Plotly visualizations and reducing **latency** for large CSV datasets.

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

Projects

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

- Designed a native desktop audio transcription application using **Rust** systems programming and **Tauri** framework, with a focus on real-time **on-device** speech processing, powered by Whisper.
- Engineered a **CUDA-accelerated** inference pipeline with **auto device detection** and **CPU fallback**, achieving **10x** performance improvements on NVIDIA GPUs (**0.5s vs 5s**).

Skills/Tools: Rust • Tauri • Python • CUDA • Windows API • WebRTC • Git • Systems Programming • AI/ML • cuDNN

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**.

Technical Skills

Languages: Python • C • JavaScript • Bash • TypeScript • HTML/CSS • Racket • Java • C++ • Rust

Frameworks/Tools: MCPs • Node.js • Git • Cursor • React • Shell Scripting • Puppeteer • Docker • Tauri

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**