

ZAID ABDULAMEER

416-474-1933 | zabdulam@uwaterloo.ca | [in zabdulam](#) | [z4ab](#)

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, HTML/CSS, Python, SQL, C, C++, C#, Bash, R

Frameworks and Tools: Git, Linux, React, Node.js, MongoDB, REST APIs, Express, .NET, Numpy, Pandas

EXPERIENCE

Backend Software Developer

Sep 2025 – Dec 2025

Ontario Institute of Cancer Research

Toronto

- Designed and implemented a mentor-mentee **matching algorithm** for the [Bioinformatics.ca](#) learning platform, improving pairing accuracy and user satisfaction.
- Developed and documented **REST API endpoints** in Express and TypeScript, collaborating with front-end engineers to ensure best practices, maintainability, and seamless integration

IT Quality Assurance Analyst

Sep 2024 – Apr 2025

First National Financial LP

Toronto, ON

- Tested the transmission system of mortgage applications between brokers and mortgage underwriters, servicing **1000+** professionals of major Canadian mortgage lenders such as TD, BMO and Manulife
- Identified, documented, and tracked defects using **Azure Devops**, collaborating with developers and business analysts to resolve issues promptly.

Broadcast Technical Director

Oct 2023 – Aug 2024

UWaterloo Esports

Waterloo, ON

- Directed **live esports broadcasts** with professional-grade equipment including audio mixers, cameras, and microphones, consistently delivering high-quality streams to audiences of **100+ concurrent viewers**.
- Automated scene changes using **Node.js** scripts, to ensure seamless transitions and high quality broadcasting.

PROJECTS

🔗 Satellite Ground Station | FastAPI, GraphQL, REST API, Docker, Python, PostgreSQL

- Built a web server to communicate with a satellite, obtaining data and sending commands, for [UW Orbital](#).
- Designed and implemented REST API endpoints using **FastAPI** and **GraphQL** for integrating a PostgreSQL database.
- Organized deployment with a Docker compose for multiple **containerized servers** for efficient testing and releases.

🔗 AI Interview Help Website | OpenAI, PostgreSQL, Supabase, React, Next.js, TypeScript

- Led the **front-end** design and development of a **Next.js** website to help users improve their interviewing skills.
- Integrated **Open AI's** Whisper model for advanced **speech recognition** and GPT for generating relevant interview feedback for users.

🔗 C++ Chess Engine | C++, OOP Design Patterns, X Window

- Created a chess game using the **MVC** architectural pattern, utilizing **standard design patterns** such as Observer, Iterator and Factory Method.
- Features a **graphical interface** using the X Window system, and computer players of varying skill levels.

🔗 Real-time Lip Reading - VoiceLens | Groq, React, JavaScript

- Created a React web application for Hack the North to silently transcribe videos using **Symphonic Labs API**, with **Llama 3 LLM** for reliable translation across languages.

🔗 Undergraduate Course Map Website | React, Next.js, JavaScript

- Designed an interactive graph of courses at the University of Waterloo using **React** and **D3 visualization** library.

🔗 Indie Game Development | Godot Engine, Aseprite, Game Design

- Published games for two game jams, requiring fast development and creative game design
- Working on a Factorio inspired game using C++ and SDL2

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Computer Science

Sep 2023 – May 2028

- Relevant Courses: Object-Oriented Programming, DSA, Compilers, Computer Architecture, Corporate Finance