

# OWEN WALDRON

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## TECHNICAL SKILLS

**Proficient Technical Skills:** Python, Swift, Java, C, SQL, HTML, Javascript, C++, CSS, Linux, Git

**Mobile Development:** iOS (Swift: SwiftUI & MVVM, Storyboards), Android (Java: Android Studio)

**Web Development:** Backend (Django, Flask), Frontend (React.js, CSS, HTML), Databases (Firebase, MySQL, SQLite3)

## EDUCATION

**University of Waterloo, Faculty of Mathematics** | May 2026

**Cumulative GPA:** 96.08/100

*Bachelor of Computer Science, Minor in Physics. (Candidate)*

**Major GPA:** 96.29/100

- **Honors & Awards:** President's Scholarship of Distinction, Dean's Honours List (Fall 2022 - Present)
- **Relevant Courses:** Object Oriented Software Development, Algorithm Design and Data Abstraction, Calc 1-3, Lin Alg
- **Involvement:** Physics Club, Computer Science Club, MATH 135 (Algebra and Proofs) Course Marker

**Toronto French School** | May 2022

**IB Points:** 44/45

*Ontario Highschool Diploma, International Baccalaureate Advanced Bilingual Diploma, The Brevet National Diploma*

- **Honors & Awards:** Tory Award, Highest Awards in Computer Science, Higher-Level Math, and Higher-Level Physics

## WORK EXPERIENCE

**Web Developer**

**May 2023 – August 2023**

*North York Aquatic Club – Toronto, ON*

- Invented and implemented frameworks for quantitative analysis of swim club performance.
- Automated data visualization and performance report generation for board use through a web app interface
- Developed feature rich web app with React.js frontend and a Django backend on an AWS server.

**Competitive Swim Coach**

**September 2021 – June 2022**

*North York Aquatic Club – Toronto, ON*

- Coached and coordinated 50+ competitive junior provincial swimmers by designing and executing tailored exercises.
- Managed competition registration and maintained communications with parents by providing monthly reports on swimmer performance.

## SAMPLE PERSONAL PROJECTS

**WaveAI**

**July 2022 - Present**

*Swift & SwiftUI, Xcode, OpenAI API*

- Collaborated to envision an app to aid language learning by providing a FaceTime-like interface for talking to an AI.
- Constructed a framework for fluid speech-to-text and text-to-speech conversations using the AVFoundation library in combination with OpenAI's API
- Realized a colleague's Figma design using SwiftUI, and implemented the MVVM architecture for the app

**Data-Pool.ca**

**June 2021 – August 2023**

*Django, React.js, HTML (Jinja 2), CSS, Javascript*

- Implemented a Django backend that allows the querying of and SQL database of millions of individual swims through a RESTful API.
- Designed a dynamic React.js frontend which interacts with the backend through GET and POST requests.
- Configured DNS to point domains and subdomains to the React.js frontend and AWS backend, respectively.

**Donut.py**

**Sept 2021 – Nov 2021**

*Python, Vector Graphics, Specular Lighting*

- Researched the mathematics behind vector graphics and specular lighting to create a vector graphics engine in python capable of rendering basic geometric volumes.

## OTHER SKILLS

**Skills:** Native proficiency in French, advanced problem solving, team management and cooperation, analytical and critical thinking, coaching and mentoring

**Interests:** Physics and mathematics, rock climbing, competitive swimming, cats, video games