OWEN WALDRON

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TECHNICAL SKILLS

Proficient Technical Skills: Python, Swift, Java, C, SQL, HTML, TypeScript, TSX/JSX, C++, CSS, Bash, Git, Excel
Mobile Development: iOS (Swift: SwiftUI & MVVM, Storyboards), Android (Java: Android Studio)
Web Development: Backend (Django, Flask, Node.js), Frontend (React.js, CSS, HTML), Databases (MongoDB, SQL)

EDUCATION

University of Waterloo, Faculty of Mathematics | May 2027   **Cumulative GPA:** 94.53%
Bachelor of Computer Science, Minor in Physics. (Candidate)
- **Honors & Awards:** President's Scholarship of Distinction, Dean's Honours List (Fall 2022 - Present)
- **Relevant Courses**: Object Oriented Software Dev, Algorithm Design, Data Structures & Data Management (IP)
- **Involvement**: Underwater Hockey Club Vice President of Operations, Former Algebra Course Marker (Fall 2023)

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

Software Developer   **Dec 2023 – May 2024**
Marsh McLennan Companies – Toronto, ON
- Developed internal workflow automation software as part of an Agile software development team (MERN stack).
- Collaborated with UX team to engineer a reusable React component library for internal use.
- Assembled technical documentation breaking down the integration and data architecture of various applications.
- Experimented with new technologies such as generative AI by developing proof-of-concept applications.

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.

SAMPLE PROJECTS (PORTFOLIO)

WaveAI   **Ongoing**
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 an SQL database of millions of individual swims through a RESTful API.
- Designed a dynamic React.js fronted 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: Proficiency in French, advanced problem solving, team management and cooperation, analytical and critical thinking, coaching and mentoring
Interests: Physics and mathematics, rock climbing, underwater hockey, cats, video games