

Owen Gretzinger

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EDUCATION

Honours Computer Science Co-op (B.A.Sc.), McMaster University

Sep 2021 – Apr 2025

GPA: 4.0/4.0

- Teaching assistant for 40 third-year software engineers in a data structures and algorithms course (fall 2023)
- Year Representative in the Computer Science Society
- Awards: Provost's Honour Roll Medal (x2), Deans' Honour List (x3), Edwin Marwin Dalley Memorial Scholarship, Faculty of Engineering Award of Excellence

WORK EXPERIENCE

Software Developer Co-op RBC Amplify, Royal Bank of Canada

May 2024 – Present

- Building an innovative solution for RBC's life insurance products using React, Node.js, and Azure database services, incorporating feedback from usertesting.com to create a user-centric application

Software Engineer, Pekoe Development

Dec 2023 – Present

- Leading the front-end development of AIRE, an AI-powered communication platform for realtors, by implementing the entire client-side application from scratch using React, Next.js, and Node.js
- Engineered scalable database schemas and integrated a Supabase PostgreSQL database with the front-end, enabling efficient data management and real-time updates

Software Developer Co-op, Arctic Wolf Networks

May 2023 – Aug 2023

- Developed and implemented 51 enhancements for the WolfHelper Chrome extension using JavaScript and Node.js, including the creation of new features such as an IP scanner check which became the fifth most-used action
- Integrated the Webpack bundler, improving performance and reducing the application size by 500%, and incorporated Fullstory for comprehensive behavioral analytics, enhancing the application's user experience insights
- Redesigned the interface using CSS, significantly improving user experience and earning praise from senior leadership

PROJECTS (All source code at github.com/owengretzinger)

Personal Website | owengretzinger.com | *React, Next.js, TypeScript, Node.js, Figma*

- Achieved a perfect 100% Lighthouse score in performance, accessibility, best practices, and SEO by optimizing code

Habits Together App | github.com/owengretzinger/habits-together | *React Native, Firebase, Expo, TypeScript, Figma*

- Leading a cross-functional team of 9 students to build an iOS and Android app using React Native, incorporating advanced data visualization and social features
- Implemented state management using Jotai to manage data flow, reduce API requests, and improve loading times

Jazz Musician Website | mattausgretzinger.com | *React, Decap CMS, Next.js, TypeScript, Node.js, Figma*

- Implemented Decap CMS, saving the client 10 hours by enabling them to maintain the site and post upcoming shows

Server Insights Discord Bot | devpost.com/software/server-insights | *Python, Discord.py, Matplotlib*

- Achieved first place in TrailHacks by building a Discord bot using Python that analyzes messages, generating insightful breakdowns of server activity and engagement

SKILLS

Languages: Python, TypeScript, JavaScript, Java, HTML, CSS, SQL

Frameworks & Technologies: React, Next.js, Node.js, PostgreSQL, Firebase, React Native

Tools & Platforms: Figma, Git, Linux