

Owen Gretzinger

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EDUCATION

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

Sep 2021 – Apr 2025

CGPA: 4.0/4.0

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

WORK EXPERIENCE

Software Developer, McMaster Engineering Society

Aug 2024 – Present

- Built a draggable time selector from scratch for the study room booking portal, relied upon by thousands of students to efficiently book rooms in an intuitive way, using React, Next.js, and Node.js

Technical Executive, DeltaHacks (McMaster Hackathon)

Sep 2024 – Present

- Developed responsive sections of the DeltaHacks landing page using React, Next.js, and Node.js, incorporating complex layouts to enhance the user experience for thousands of applicants.

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

May 2024 – Aug 2024

- Invented a patent-pending life insurance approval model with a team of 3 other students, and built an innovative application portal using React, Next.js, and Node.js to improve client experience
- Received the Amplify Student Award for exemplifying core values of collaboration, leadership, and peer support through active engagement in Slack channels, office initiatives, and team meetings

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 production code 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 pinned 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 | habitstogether.app | *React Native, Firebase, Expo, TypeScript, Figma*

- Leading a cross-functional team of 9 students to build an iOS and Android app using React Native, implementing a Firebase NoSQL database to enable real-time data synchronization for social features

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 – TrailHacks 1st Place | devpost.com/software/server-insights | *Python, Discord.py, Matplotlib*

- Built a Discord bot using Python that analyzes messages, generating insightful graphs of server activity

TECHNICAL SKILLS

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

Technologies: React, Next.js, Node.js, React Native, Figma, Git, PostgreSQL, NoSQL, Firebase, Linux, TailwindCSS