Owen Gretzinger

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PROFESSIONAL SUMMARY

I am a third-year computer science student with strong fundamentals, exemplified by academic excellence, previous internship experience, and becoming a teaching assistant for a third-year data structures and algorithms course. I hope to continue expanding upon my knowledge while building meaningful software during future internships.

EDUCATION

Honours Computer Science Co-op (B.A.Sc.), McMaster University   **Sep 2021 – Apr 2025**
GPA: 4.00/4.00
- Teaching Assistant for Software Engineering Practice and Experience: Binding Theory to Practice
- Year Representative for the Computer Science Society
- Coursework includes Operating Systems, Software Design, Data Structures and Algorithms
- Awarded Provost's Honour Roll Medal in first and second year for 4.00 GPA

WORK EXPERIENCE

Developer Co-op, Arctic Wolf Networks   **May 2023 – Aug 2023**
- Developed features for a Chrome extension used internally by 150 security analysts to improve incident triage efficiency by 10%
- Implemented webpack and worked with Node.js extensively which enhanced workflows with npm packages, reduced file sizes by 500%, and improved loading speeds
- Self-initiated a UI redesign which significantly improved user experience based on feedback from several individuals
- Increased the usage limit of URL vulnerability checks by 25% by implementing cache-based API optimization

Program Director, Camp Mini-Yo-We   **Aug 2023 – Aug 2023**
- Led and managed a team of 26 to execute a staff appreciation week for 202 people at a summer camp

PROJECTS

Personal Website (owengretzinger.com**)**
- Developed a personal website that displays additional projects, includes blog posts rendered from markdown, and features polished animations
- Built using TypeScript, React, Tailwind CSS, and Next.js

Simple Terms (devpost.com/software/simple-terms**)**
- Created a Chrome extension that uses AI to summarize terms and conditions with two other students for a hackathon
- Implemented API request optimizations to make summary generation 8x faster
- Built using OpenAI's API, TypeScript, React, and Tailwind CSS

Jazz Musician Website (mattausgretzinger.com**)**
- Designed and developed a website for a professional jazz musician
- Implemented a Content Management System (CMS) so that the musician can upload new shows and maintain the site
- Built using TypeScript, React, Tailwind CSS, Next.js, and Decap CMS

Education Data for Change (owengretzinger.com/education-data-for-change**)**
- Created a website that analyzes Ontario education datasets to display public school test scores and income data
- Enhanced the project after initially creating it for a hackathon to improve usability and accessibility
- Built using HTML, CSS, JavaScript, Python, and SQL

SKILLS

Languages: Python, JavaScript, TypeScript, Java, C#, HTML, CSS, SQL, C++, C, Haskell
Technologies: React, Node.js, Next.js, Tailwind CSS, Linux