

# Owen Gretzinger

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## Highlights of Qualification

- Third-year computer science student proficient in Python and React, with previous technical internship experience.
- Strong leadership skills gained through roles as a teaching assistant, camp program leader, and involvement in student societies and youth programs.
- Eagerness to learn and commitment to follow through demonstrated by completion of personal projects and top academic performance.

## Education

### McMaster University Bachelor of Computer Science

Sep 2021 - Apr 2025

- GPA: 4.0/4.0 (awarded Provost's Honour Roll Medal twice for attaining an A+ in all courses to date).
- Gained experience related to databases, algorithms, and software design through course work.

## Work Experience

### Teaching Assistant McMaster University

Sep 2023 - Present

- Leading labs for 40 third-year software engineering students, which includes providing technical expertise on data structures and algorithms.

### Developer Co-op Arctic Wolf

May 2023 - Aug 2023

- Played a leading role in the development of an internal Chrome extension using JavaScript, improving incident triage efficiency for 150+ security analysts.
- Implemented Webpack and worked with NodeJS extensively, resulting in reduced development time and more efficient, bundled code.
- Integrated FullStory (a digital experience platform) using its REST API to acquire usage analytics, improving development prioritization.
- Redesigned the Chrome extension's UI.
- Resolved 10 security vulnerabilities (XSS, ReDoS, SSRF).

### Program Leader Camp Mini-Yo-We

May 2022 - Aug 2022

- Created quality experiences for 500 children total which included working with a team, organizing other staff, and using creativity to adapt to unexpected situations.
- Led and managed a team of 26 people in running a staff appreciation week for 202 people (August 2023).

## Projects

### Personal Website

#### Personal Project

Developed a website using React that demonstrates meticulous attention to detail and showcases additional projects.

### Simple Terms

#### Hackathon Project

Created a Chrome extension that uses AI to summarize terms and conditions. Made with two other students for Hack the North 2023, using OpenAI's API and React.

### Jazz Musician Website

#### Personal Project

Designed and built a website for a professional jazz musician using React, including a Content Management System (CMS).

### Education Data for Change

#### Hackathon & Personal Project

Collaborated with team members to create a website that offers insights into the Ontario education system using HTML, CSS, JavaScript, Python, and SQL.

## Skills

**Languages** Python, TypeScript, JavaScript, Java, C#, HTML, CSS, SQL, Haskell, C++, C, Elm

**Tools** React, NodeJS, Git, NextJS, Jira, Confluence, Linux, Figma

**Methodologies** Agile Development, Design Patterns, Software Development Life Cycle (SDLC), Unified Modeling Language (UML)

## Leadership Experience

### Year Representative McMaster Computer Science Society

Oct 2022 - Present

- Communicate with the third-year computer science body and university officials to resolve issues.
- Collaborate with society members to plan and execute engaging events.

### Youth Leader Church on the Rock

Sep 2021 - Present

- Leader on team running weekly youth programs for 20+ participants which includes running games, planning special events, and mentoring participants.