

# Owen Gretzinger

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## Highlights of Qualification

- Third-year computer science student proficient in Python and React, with previous technical internship experience.
- Committed and eager to learn, as demonstrated by achieving top academic performance and completing personal projects.
- Strong understanding of data structures and algorithms (DSA), resulting in a teaching assistant role for a third-year DSA implementation course.

## Education

### McMaster University Sep 2021 - Apr 2025 Bachelor of Computer Science

- 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 Sep 2023 - Present McMaster University

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

### Developer Co-op May 2023 - Aug 2023 Arctic Wolf

- 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 May 2022 - Aug 2022 Camp Mini-Yo-We

- 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 personal 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 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, C++, C, Haskell

**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 Oct 2022 - Present McMaster Computer Science Society

- 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 Sep 2021 - Present Church on the Rock

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