

# Ethan Walsh

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## SKILLS

**Programming Languages:** Python, Java, JavaScript, TypeScript, HTML/CSS

**Frameworks/Libraries:** FastAPI, MongoDB, React.JS, TailwindCSS

**Currently Learning:** C, Firebase, MATLAB, Next.JS, SvelteKit

**Tools:** Autodesk Inventor, Granta Material Analysis, GitHub/Git, VS Code, Microsoft Office, PyCharm, IntelliJ

## EDUCATION

**McMaster University** · Hamilton, ON

2022 - 2026

Software Engineering (B. Eng)

## EXPERIENCE

**Software Engineering Intern · Fermi Solutions** · Port Elgin, ON

May 2023 - Aug. 2023

- Developed a full-stack web application with React (TypeScript), MongoDB, and FastAPI to manage temporary storage in large-scale nuclear facilities, to be potentially used by hundreds of employees
- Created intranet site for Fermi Solutions (~40 employees) using Microsoft SharePoint
- Wrote/edited procedures to assist in the expansion of the quality assurance manual and program

**Program Developer · Nuclear Innovation Institute** · Port Elgin, ON

Jan. 2022 - Jun. 2022

- Led the initial creation of an online Python learning platform to be potentially used by grade nine students in the Bluewater District School Board (population 16,500)
- Generated unique programming challenges and exercises that can be used by teachers to increase student engagement
- Completed the website where the course is located using Python, HTML, and Wix software

**Computer Science TA · Saugeen District Senior School** · Port Elgin, ON

Sep. 2021 - Jan. 2022

- Improved student learning by teaching programming with self-developed games and program shells
- Presented concepts in lessons to students, strengthening leadership and public speaking skills
- Learned further Python skills through the instruction of assignments and solutions

## PROJECTS

**Colour Your Spotify (Deltahacks 9)**

Jan. 2023

- Developed an application as a part of a development team to match dominant colours in images to suggested music playlists
- Worked with a team of 3 first-year engineering students using Python & the Spotify API within 24 hours

**Trash to Transit (McMaster University)**

Jan. 2023

- Led a team of 4 engineering students to a third-place finish in a first-year design competition
- Proposed a waste management solution for a rural town that would convert current waste into stored electrical power for small-scale public transit
- Improved public speaking skills through presenting ideas to a variety of industry professionals and McMaster professors

## AWARDS

**Anna Marie Hibbard Scholarship · McMaster University**

July 2023

Award for student with highest combined average from the Fall-Winter terms in Level 1, not holding a higher value scholarship.

**Provost Medal · McMaster University**

July 2023

Awarded to students finishing a year of study with a GPA of 4.0 (12.0 on McMaster scale)

**RCM Grade 10 Piano (Honours) · Royal Conservatory of Music**

July 2022

**Senior Music Award · Saugeen District Senior School**

June 2022

**Computer Science & Mathematics Awards (2) · Saugeen District Senior School**

June 2021