Owen Garland

Computer Science Student Co-Op

I am an enthusiastic and driven Computer Science Student with a high proficiency and passion for learning and applying practical technologies that will advance my career as a software developer.

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📍 Waterloo, Canada

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EDUCATION

Bachelor of Computer Science
Conestoga College

09/2021 - 2025   *Waterloo, ON*

Courses

- Project I: Software Implementation and Unit Testing
- Project III : Software Development Life Cycle
- Object Oriented Programming
- Systems Analysis and Design
- Introduction to Database Systems
- Project II: Team Based Software Development
- Project IV: Mobile and Networked Environments
- Data Structures and Algorithms
- Mobile and Networked Systems
- Operating Systems

WORK EXPERIENCE

Material Handler
P&H Milling Group

07/2022 - 09/2022   *Hanover, ON*

Flour Milling Company

Achievements/Tasks

- Understood how to transfer flour throughout the mill with a SCADA/HMI interface.
- Learned fast and effectively, to gain the ability to take shifts for a fulltime employee.

Crew Team Member
Tim Hortons

09/2018 - 01/2022   *Walkerton, ON*

Achievements/Tasks

- Assisted with in-store operations by disassembling delivery boxes, cleaning floors and dishwashing.
- Used proper techniques to prepare food and ingredients.
- Provided excellent customer service by greeting customers and meeting quality expectations.

SKILLS

HTML and CSS · JavaScript · C++ · C# · Java · MySQL · R · NoSQL · Python · LinuxOS · UI/UX Design · .NET · ML.NET · Troubleshooting · Problem Solving · Collaboration · Communication · OOP · Agile · Time Managment · Analytical Skills

PROJECTS

Project III: Ford Assembly Plant SCADA/HMI (09/2022 - 12/2022)

- Applied the following technologies in the project: **C++**, **Visual Studio Native Unit Testing framework**, **ImGui**(Opensource GUI API), **openGL** + **GLFW** rendering for the graphics.
- This was a project developed in a team of 4, where we planned, developed, tested and built an HMI/SCADA interface to benefit a Ford Plant Manager.
- This interface monitored the whole assembly process of a ford vehicle from the body machine, paint chamber, chassis machine and interior machine, with simulated data to test and operate the application.
- I learned a lot about using a open sourced front end API known as **ImGui**, which was decided on since it was open sourced and had a lot of options to allow us to design.

STEAM Fair Co-Op Mentorship Web App (09/2020 - 03/2021)

- Paired up with a Software Engineer Mentor from NPX, in association with Bruce Power.
- This project was a web application that imported the **Google Blockly API**, this was developed using the web development languages (**HTML**, **CSS** and **JavaScript**).
- This project was a massive undertaking since I needed to develop this application we planned without any previous knowledge about web development. I learned and applied these skills to a project which was highly fulfilling since this gave me the spark for Software Development and Computer Science.

INTERESTS

Computers · Fishing · Kayaking · Chess · Books · Programming