



Owen Garland

Computer Science Co-Op Student

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

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EDUCATION

Bachelor of Computer Science Conestoga College

2021 - 2025

Waterloo, ON

Program Highlights

- Through a **practical project-based education**, this allowed me to apply theory gained during the semester in a team environment to test, develop and manage a project from start to finish.
- I mainly used the **Microsoft Visual Studio environment IDE**, as well as the **MS Testing** and **Native Unit testing framework**, for all of our project-based assignments.
- A practical course involving **Software Quality**, emphasizing testing tools and methodologies, allowed me to utilize software quality tools to ensure reliability in software development process.
- A strong foundation in theory courses, from **Operating Systems** to **Computer and Mobile Networks**, allowed me to gain a practical hands-on experience in essential technical and networking skills.
- I have been a part of the **Google Student Developer Club** at Conestoga College since September 2021, allowing me to compete in coding competitions and learn industry tools in workshops.

WORK EXPERIENCE

IT Business Solutions Developer Home Hardware Stores Limited

05/2023 - 08/2023

St. Jacobs, ON

Achievements/Tasks

- Technologies: **PL/SQL, SQL Developer, Appworx, MKS, Internal Corporate Tools.**
- Completed many assigned application service request modules following a waterfall approach, with a high degree of effectiveness.
- Created Test cases and went through testing phases, which must be approved by a senior developer before being sent to QA.
- Completed extensive technical documentation for each request.
- Self managed and set up meetings with co-workers that could help me learn more about the system and solution I would be working with.

SKILLS

HTML and CSS

JavaScript

C++

C#

Java

PL/SQL

R

NoSQL

Python

Linux

UI/UX Design

.NET

ML.NET

REST

SOLID

Troubleshooting

Problem Solving

Collaboration

Communication

OOP

Agile

Time Management

Analytical Skills

PROJECTS

Smart Cities Seneca College Hackathon Winner - AI for Cyber Security (04/2023 - 05/2023)

- Technologies: **Python, Machine Learning, VS Code, HTML, CSS, JavaScript.**
- Planned and managed a winning project during the course of a week for this hackathon, the goal of the project was to provide a cyber security solution for the modern age of smart cities.
- Our project was Instagram Fraud Account Detection, where we had a model trained on publicly available dataset that allowed for us to train it to detect if a account was a bot or a real person using it.
- We had to also prepare a business plan and build working prototypes to showcase to investors/mentors.

Project IV: ClassifAI Client-Server Image Classifier (01/2023 - 04/2023)

- Technologies: **C#, ML.NET, WPF XAML Frontend.**
- Planned, developed and tested a end to end solution for a client and server application, using the ML.NET framework for the machine learning model integration.
- The goal of the project was to allow for a client to be able to try out Artificial Intelligence in a fun and engaging way with detecting objects out of images sent to the server.
- This project gave me and my team hands on experience with networking, data packet communication and a wide range of skills related to developing an end to end application for a client and server admin.

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

- Technologies: **C++, Visual Studio Native Unit Testing framework, ImGui(Opensource GUI API), OpenGL + GLFW rendering for the graphics.**
- Working as part of a team of 4, assisted in planning, developing, and testing a HMI/SCADA interface for the client.
- The interface monitored the entire assembly process of a vehicle from the body machine, paint chamber, chassis machine and interior machine, with simulated data to test and operate the application.
- Researched open-souce API options for use in the frontend, gaining experience researching and integrating an external API.