

DANIEL SOWA

SOFTWARE DEVELOPER

🏠 Grimsby, Ontario

✉ sowad@sheridancollege.ca

📞 289-455-3594



[linkedin.com/in/danielsowad](https://www.linkedin.com/in/danielsowad)

🌐 <https://github.com/RebelSnowStorm>

SUMMARY

Created and maintained programs in several languages such as C, C++, C#, Java, and Python, enhancing user experience and functionality. Utilized desktop frameworks like .NET Maui and Tkinter, and web focused frameworks like ASP.Net, Spring Boot, and AngularJS to streamline development processes. Managed databases using SQL. Developed rendering software with OpenGL and using HLSL shaders. Built and deployed computers.

SKILLS

Programming Languages:

Python, C++, C#, HTML5, Javascript, CSS, HLSL / GLSL, Structured query language SQL

Frameworks:

Tkinter, Pygame, ASP.NET Core, .NET Maui, AngularJS, Spring Boot, OpenGL, GLFW

Other Skills:

Computer building, Time management, Organizational skills, Software Debugging, Problem Resolution

EDUCATION

Honours Bachelor of Computer Science | Specialized in Game Engineering

Sheridan College | 1430 Trafalgar Road, Oakville, Ontario

May 2027

PROJECTS

PyBox

May 2025 - Present

A personal data driven 2D game engine written in Python 3.13 using Pygame:

- Implemented Entity Component Systems (ECS) architecture to enable modularity.
- Designed for ease of use and extensibility.
- Integrated community mod support, enhancing user engagement.
- Built with robust optimizations.

Built using a mix of object oriented and modular data driven design. Created as an aspiration to learn complex systems behind commercial game engines. Originally started as a strictly object oriented engine, problems immediately arose with lack of modularity. The solution was to incorporate a mix of data driven and object oriented design, where an ECS architecture handles the dynamic data using JSON files while object oriented design is used for main game logic.

ACHIEVEMENTS

Robotics Team

Blessed Trinity High School

Sep 2019 - Jun 2023

Collaborated in a team of four to design a robot that won 5 District and Ontario Skills competition awards:

- Engineered a robust and efficient chassis, contributing to competitive performance.
- Programmed control software for embedded circuits, improving manual control precision.
- Designed and programmed autonomous routines that secured multiple autonomous round wins.

EXPERIENCE

Warehouse Associate

Canadian Tire | Grimsby, Ontario

Oct 2022 - Present

- Managed large warehouse with digital tools
- Created layout plans so stock is located and audited properly
- Organized \$12+ Million dollars worth of product
- Forklift certified
- Assisting numerous customers with varying issues