

# Linden Sheehy

Ottawa, Ontario

613-804-9070

[lshee103@uottawa.ca](mailto:lshee103@uottawa.ca)

[GitHub](#)

[LinkedIn](#)

## Summary of Qualifications

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- Third-year software engineering student at the University of Ottawa.
- Exceptional communication and coordination skills, developed by working 2 years in customer service.
- Fluent in English, Intermediate in French.
- Skilled with C++, C, Python, and Java.
- Familiar with JavaScript, C#, Bash, 86x assembly, JSON, HTML, CSS, XML, Android Studio, and Firebase.

## Education

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Bachelor of Applied Science in Software Engineering

2022 - Present

The University of Ottawa, Ottawa, Ontario

- Calculus, Discrete Mathematics, Data Structures and Algorithms, Operating Systems.

## Skills and Abilities

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### Adaptability

- Able to smoothly switch work styles, conforming to new requirements or environments.
- Quickly pick up on new concepts and confidently apply them where relevant.
- Transferred quickly between tasks to assist my teammates on our Android App, leveraging my skills and knowledge to support the teams' success.

### Critical Thinking

- Quick to break a problem down into its key steps.
- Confident in determining which steps are the most vital to solve a given problem.
- Applied these skills to develop my 3D graphics engine, optimizing my projection function and managing big data structures like meshes.

### Resourceful Coding

- Skilled at finding ideas and implementing them into my own work where applicable.
- Efficient at determining which information is relevant when researching.
- Utilized resources such as Stack Overflow and ChatGPT, where applicable for my projects, to help find solutions to problems encountered while writing code.

## Relevant Experience

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Student Data Analyst 9/2024 – 12/2024

Transportation Safety Board of Canada, Gatineau, Quebec

- Worked extensively with Excel, Power BI, and SharePoint to manage, analyze, and visualize data for internal projects, improving workflow efficiency and data accessibility.
- Created dynamic Power BI dashboards to support data-driven decision-making and streamlined collaboration using SharePoint for document management and sharing.
- Strengthened Skills: Databases, Data visualization, data analysis, SharePoint integration, teamwork, cross-departmental collaboration.

3d Graphics Engine 10/2022 – Present

Under [3dgraphicsCpp](#) on my GitHub

- Experience with the GUI library SDL2. I had written the same project previously in [python using PyGame](#), but I switched to C++ and SDL2 for the second version to increase performance, and now it offers much more functionality as well.
- Strengthened Skills: C++, complex data structures, rendering pipelines, GUIs.

Game GUI Overlay Modification 11/2024 – Present

Under [RustModification](#) on my GitHub

- This project made use of some resources I had previously developed for my other project [PlantsVsZombiesApi](#).
- Reverse engineered game memory to extract entity positional data and developed a graphical overlay for Rust using Win32 API and GDI+, featuring real-time rendering with double-buffered shared memory.
- Strengthened Skills: C++, 86x Assembly, reverse engineering, Windows API, shared memory management, rendering pipelines.

Android App 09/2023 – 01/2024

Under [SEG-Project2023](#) on my teammate's GitHub

- Created an Android app to organize events with 4 team members.
- Experience with Android Studio to create the app UI and functionality, and Firebase for data storage.
- Strengthened Skills: Java, XML, UI Design, Team Coordination, Shared Git Repositories.

## Awards and Achievements

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Ontario Scholar, St. Matthew High School	2022
1 <sup>st</sup> Place in the Euclid Mathematics Contest, Waterloo University	2022
1 <sup>st</sup> Place in the Senior Mathematics Contest, Waterloo University	2022
2 <sup>nd</sup> Place in the Lagrange Mathematics Contest, Mathematica Centrum	2018