

Ahmad Soboh

COOP Student

Ottawa, ON
ahsoboh@outlook.com

343-987-7790
<https://ahmadsobohhh.github.io/Website>

EDUCATION

Bachelor of Applied Sciences in Software Engineering

Sept 2022 - 2026

University of Ottawa

Ottawa, ON

- Participated in the UO Rocketry Club, coordinated with others on large-scale projects.

KEY SKILLS

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|--------------------------------|--|--|
| ✓ C#, Python, C++, Java | ✓ Knowledge of Linux/Mac/Windows operating systems | ✓ Excellent software problem solving and identification skills |
| ✓ HTML, CSS, JavaScript, MySQL | ✓ Experience with Git & Github | ✓ Self-motivated, actively seeks out and tackles problems |

PERSONAL PROJECTS

Cyber Security Web Development

- *Encrypted Communication Application*
 - Developed an application allowing users to create chatrooms and send encrypted messages, photos, and files to one another with **256 bits** of packet data using an **encryption algorithm**.
 - Implemented various security mechanisms including SSL/TLS certificates, digital signatures, and HMAC-based authentication to prevent **spoofing**.
 - Ensured data integrity and authenticity by using end-to-end encryption, digital signatures, and HMAC-based authentication to prevent **Man in the Middle** attacks.
 - Limited access to the controller and backend servers, implementing input validation and sanitization to prevent **SQL injection**, **cross-site scripting**, and other attacks.
 - Designed a beautiful and functional front end using **HTML**, **CSS**, and **JavaScript**.

Ecommerce Google Chrome Extension

- *yourCart*
 - Developed a Chrome Extension that **web scrapes** shopping websites to track user's spending.
 - Implemented a **database** to store scraped data, allowing the user to view their spending history.
 - Deployed the extension to the Chrome Web Store for users to easily install and use.

Game Development

- *C++ Maze Game*
 - Created and developed a Maze game utilizing C++ and **object-oriented programming**.
 - Implemented game logic and mechanics, including user input handling and collision detection.
 - Utilized various data structures, such as arrays and linked lists, to store and retrieve information.
 - Developed a user-friendly interface for players to navigate the maze and reach the end goal.

WORK EXPERIENCE

Computer Administrative Clerk

Jun. 2022 - Sept. 2022

The Teal Umbrella

Ottawa, ON

- Indexed **1000+** medical patient files
- Transferred the business from a physical file system to a **digitized** file system.
- Streamlined workflow processes by implementing a new filing system resulting in a **50% reduction** in file retrieval time.