

# ALLYSSA POULIN

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## EDUCATION

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**BSc. Honours Computer Science** with Software Engineering Specialization

April 2023

University of Windsor

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Software Design and Analysis, Database Management Systems, Software Verification Testing, Computer Networks

## SKILLS

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<b>Languages</b>	Java, C, C#, HTML/CSS/JavaScript, Python
<b>Frameworks</b>	Flask, Bootstrap, Spring Boot
<b>Tools</b>	Git, Linux, Unity, Visual Studio, SQL, Docker

## PROJECTS

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**Compound Interest Rate Visualizer.** Created and designed an interactive web app in JavaScript that helped students develop an understanding of compound interest. Utilized Google Charts to display interactive and colour coded charts. Ensured readable and maintainable code that allowed for easy future developments and bug fixes.

**Project S - 2D Dungeon Crawler.** Designed and programmed a top-down 2D dungeon crawler game. Developed using C# and object-oriented design principles to ensure reusable code. Utilized Mirror to implement peer-to-peer connections and server hosting. Explored and experimented with online documentations to develop and finalize the product.

## EXPERIENCE

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**Research Assistant**

Jan 2023 - Present

*Python*

*University of Windsor*

- Research into orderly algorithms for graph generation and generation tournaments
- Implementation of algorithm for full binary trees in Python, debugging and improving code readability

**Teaching Assistant**

Jan 2022 - Present

*C#/Unity*

*University of Windsor*

- Teaching assistant for a third and fourth year artificial intelligence in game design and development course
- Hosted office hours, created tutorial sessions and tutored students one on one about working in Unity and game design principles

**Research Database Assistant**

Jan 2022 - Aug 2022

*PHP/SQL*

*University of Windsor*

- Database web application development using PHP and MySQL for a library book checking system
- Developed a front-end web app using HTML, JavaScript, and CSS to interact with the database
- Collaborated with professor and graduate students to create documentation for future students

## VOLUNTEER

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| • FIRST Robotics – Team 4920<br><i>Programming Lead &amp; Mentor — 2019 &amp; Present</i> | • Women in Cybersecurity<br><i>Secretary — 2022 – 2023</i>      |
| • Enactus YouThrive 3.0<br><i>Development Associate — 2021 – 2022</i>                     | • Game Design and Development<br><i>Treasurer — 2021 – 2022</i> |