

# Jamie Watson

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Ottawa, ON, Canada

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<https://github.com/Jamie-Watson>

## Skills

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**Programming languages:** Java, Python, C++, HTML, CSS, and JavaScript  
**Technologies:** Git, Bootstrap

## Projects

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**PenPal – Java Accessibility Tool** <https://github.com/Jamie-Watson/pen-pal>

- Developed a Java application to improve reading accessibility using optimized UI with BoxLayout for responsive design.
- Integrated a text-to-speech API, adjustable font sizes, and customizable color schemes.
- Implemented real-time dictionary lookups using Jsoup for web scraping.

**LiDAR Data Clustering** <https://github.com/Jamie-Watson/Data-Clustering-Using-LiDAR>

- Implemented the DBSCAN algorithm to cluster 3D points generated by LiDAR sensors.
- Analyzed the use of DBSCAN for distinguishing objects in autonomous vehicle navigation.
- Utilized LiDAR data to create detailed spatial representations and cluster distinct objects.

**Portfolio Website** <https://jamie-watson.github.io>

- Built a responsive portfolio website using HTML, CSS, JavaScript, and Bootstrap.
- Created a modern, user-friendly interface to display personal and academic projects.
- Implemented dynamic project filtering and navigation using JavaScript.
- Leveraged Bootstrap for cross-platform compatibility and responsive design.

**Rhythm Master Website** <https://rhythm-master.github.io>

- Collaborated in a team of five to create a website for marketing a conceptual product using HTML, CSS, and JavaScript.
- Designed and developed a custom, visually engaging site to showcase the product's features and benefits.

## Education

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**Bachelor of Applied Science in Software Engineering (CO-OP)** September 2023 – Present  
University of Ottawa (Ottawa, ON) Expected graduation date: December 2027

- GPA: 3.9/4.0
- Relevant courses: Intro to Computing I, Professional Communication and Responsibility, Digital Systems I, Introduction to Computing II, Computer architecture I, Data Structures and Algorithms
- Admission Scholarship - \$3000
- Faculty of Engineering Dean's Merit Scholarship - \$5000

## Work Experience

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**Coding Camp Counselor** July 2023 – August 2023  
STEM Camp, Ottawa ON

- Taught over 250 children programming concepts in block coding, Python and JavaScript through Minecraft Education Edition.
- Developed lessons with coworkers on how to program hardware components such as the BBC micro:bit.
- Effectively communicated with parents about the lessons taught to their children while accommodating for different levels of understanding of computer science.