# **Jamie Watson**

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Ottawa, ON, Canada

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

## **Skills**

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

**Technologies:** Git, Bootstrap

## **Projects**

**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**

**Bachelor of Applied Science in Software Engineering (CO-OP)**

University of Ottawa (Ottawa, ON)

September 2023 – Present

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**

**Coding Camp Counselor**

STEM Camp, Ottawa ON

July 2023 – August 2023

* 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.