

Charley Liu

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EDUCATION

University of Ottawa

Ottawa, ON

Bachelor of Science in Computer Science (CO-OP)

Sep. 2022 – Dec. 2026

- **GPA:** 10.0/10.0
- Participated at **Hack the Hill**, an in-person hackathon held at the University
- **Relevant Coursework:** Python, Java, Digital Systems, Professional Practice in Computing

EXPERIENCE

Full Stack Developer

May 2023 – Present

University of Ottawa – CEED

Remote

- Assisted lead developer by implementing new features and bug fixes for the MakeRepo web app
- Utilized **Ruby on Rails** and **Javascript** for handling the logic of various features on the app
- Communicated with other employees to document various requirements for features and task

PROJECTS

Personal Website: www.charleyliu.ca (for additional projects)

File Share | *HTML, CSS, Javascript, ReactJS, Git, Github, Netlify*

Mar. 2023

- Assisted in creating a web application that lets users share files using **WebRTC P2P** connections
- Collaborated with 2 friends during a **hackathon** to complete the project in 36 hours
- Used **Github** and **Git** to work on and update different parts of code simultaneously

Maze Solver | *HTML Canvas, CSS, Javascript, Git, Github Pages, Algorithms*

Nov. 2022 – Jan. 2022

- Created a web application that allows users to build, generate, and solve mazes
- Implemented various pathfinding and maze generation **algorithms**
- Utilized **HTML Canvas** to display and update the maze
- Deployed and tested the web application on **Github Pages**

Minesweeper | *Java, Swing & AWT*

Jan. 2021 – Feb. 2021

- Programmed a clone of Minesweeper that can be played on any machine with Java installed
- Designed a simple GUI and game interface using the **swing** and **AWT** java packages
- Added the ability to customize games with a set number of rows, columns, and mines

LEADERSHIP

Computer Science Club Executive

Sep. 2021 – Jun. 2022

Centennial C.V.I

Guelph, ON

- Coordinated & hosted weekly events with other club executives
- Created & published online resources for club members regarding data structures & algorithms
- Helped foster a community of high students with interests in Computer Science

AWARDS

Waterloo CEMC CCC Distinction Award

Feb. 2022

Canadian Computing Competition Senior Division

Guelph, ON

- Competed in a national programming competition with **3,256** high school students
- Implemented various **data structures and algorithms** in order to solve unique problems in Computing
- Completed the competition with a score in the **top 25%**

TECHNICAL SKILLS

Programming Languages: Java, Python, Javascript, Ruby, Arduino

Web Technologies: HTML, CSS, Javascript, React

Frameworks: Node.js, Rails

Developer Tools: Git, ZShell, VS Code, Heroku, Netlify, Github, Zenhub