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** (Mar. 2023), an in-person hackathon held at the university
- **Relevant Coursework:** Python, Java, Digital Systems, Professional Practice in Computing

EXPERIENCE

Lead Full Stack Developer — May 2023 – Present
University of Ottawa – CEED — *Remote*
- Maintained & implemented requested features for a **Rails** web app within a small team
- Utilized **HTML** forms and **Rails** controllers to create and update data within a **PostgreSQL** database
- Communicated with managers and supervisors on a weekly basis to document various requirements
- Followed & maintained industry standards with branching strategies, CI/CD, and staging/test servers

PROJECTS

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

File Share | *HTML, CSS, Javascript, ReactJS, Git, Github, Netlify* — Mar. 2023
- Helped create a web application that lets users share files using **WebRTC P2P** connections
- Collaborated with 2 friends to complete the project in a short span of **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* — Nov. 2022 – Jan. 2022
- Created a web application that allows users to build, generate, and solve their own mazes
- Implemented various pathfinding and maze generation algorithms using **Javascript**
- Utilized **HTML Canvas** to display and render changes to the maze
- Deployed and tested the web application on various screen sizes using **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 by allowing users to set the number of rows, columns, and mines

LEADERSHIP

Computer Science Club Executive — Sep. 2021 – Jun. 2022
Centennial C.V.I — *Guelph, ON*
- Organized & hosted weekly events with other club executives
- Created & published online data structures & algorithms resources for club members
- 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, Rails
Developer Tools: Git, ZShell, VSCode, RubyMine, Heroku, Netlify, Github, Zenhub