Mona Liu

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Interests

Language generation with logic constraints, multimodal machine translation/interpretation, language revitalization, user interfaces and accessibility, optical character recognition

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Projects

Sociouts | *Next.js, React, Express, MongoDB* — Dec. 2024
- Connected React (Next.js) frontend and Express backend
- Implemented forms that connected to MongoDB and OpenStreetMaps APIs

MADCAS | *Python, Flask, BeautifulSoup, requests* — Jun. 2023
- Utilized various Python libraries to scrape website, sort and display results
- Upgraded from a script to full HTML interface with read/write to file ability

Simple Solitaire | *Java, Swing, JavaFX* — Jan. 2023
- Implemented linked lists and OOP to create a polished game
- Added draw 1 and draw 3 features, high score, and different game screens

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Experience

Tech Assistant — Feb 2025 – Present
McRUN (McGill Students Running Club) — *Montreal*
- Implement email automations and maintain membership data using Google Apps Script (JavaScript)
- Help connect and extract data from forms and running routes using APIs

Communications Coordinator — Oct. 2023 – Apr. 2024
HackMcGill (McHacks Executive Team) — *Montreal*
- Attended weekly meetings to provide updates on tasks and suggest promotion campaigns for our hackathon
- Designed and write posts on various social media platforms that reached 600+ students
- nswered inquiries through email in a clear and professional manner

Leadership Club Member — Oct. 2021 – Jan. 2022
BLC (Believe Leadership Club) VMSS chapter — *Windsor*
- Worked with a small team over several weeks to research information for and create a blog using WordPress
- Created a polished PowerPoint presentation and video showcasing the project
- Attended local and provincial fairs to present the website to over 100 students

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Skills

Languages: Python, Java, JavaScript, HTML/CSS, R
Developer Tools: Git, Google Apps Script, Google COlab, VSCode
Frameworks: Flask, pandas; React; tidyverse
Software: Microsoft Office, Google Workspace, Wix, Wordpress, Figma

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Education

McGill University — Aug. 2023 – Present
B.Sc. Hons Computer Science — *Montreal*
- GPA: 3.8/4.0
- CS courses: COMP250, COMP206, COMP273, COMP252
- Math courses: MATH222, MATH223, MATH240, MATH323, MATH208
- Minor Conc. Linguistics, Minor Statistics