

# Greta Ru-Mei Zu

Personal website: <https://zu-greta.github.io/>

Github: <https://github.com/zu-greta>

## PROJECTS

Artificial Intelligence course final project

- Develop an agent that can win against another player in a game of Colosseum Survival. Using techniques such as Monte Carlo Tree Search, A\* Search and heuristics to efficiently make decisions and win against any opponent.

Web Development course project

- Full-stack web dev project (XAMPP, HTML/CSS/Javascript/PHP/SQLite3) creating a booking tool for school staff and students.
- [https://www.cs.mcgill.ca/~gzu/socs\\_sisters/landing](https://www.cs.mcgill.ca/~gzu/socs_sisters/landing)

McWics Hackathon project - BCV

- Develop a full-stack web-app (React, Drizzle, postgresql) that stores user information (job experiences, projects, skills...) and with the input of a job description, generates a CV with information most relevant to the job description with the help of a Gemini API call.

Codejam14 Hackathon project - MealMates

- Develop a full-stack mobile app (React-Native, Django-rest, SQLite) that allows users to swipe through food images from restaurants near them and curate a list of interested restaurants as well as match with friends on similar restaurants to try out together.

Database Systems course final project

- Design an application for a travelling agency, where users can book flights, hotels or rent cars. Created relational schemas, E/R diagrams, SQL queries and JDBC (Java) to provide a database and functions to navigate and use it.

Compiler Design project (in progress)

- Design and create a compiler for Mini-C (a subset of the C) using Java.

Operating Systems course project

- Using C programming language, create an operating system simulation including a shell, memory management and filesystem management.

Calendar/Reminder app personal project (in progress)

- Develop an iOS Calendar and ToDo list application using SwiftUI and XCode. The goal is to compare functionalities between iOS and macOS, using a database, and looking at possibilities of syncing between devices.

## RESEARCH PROJECT

TikTok algorithm analysis - team project under supervision of Professor Vybihal

- Overcoming web scraping data barriers from TikTok using bots and bypassing biases from the algorithm. Analyzing the data to see the different treatment towards user gender, food negative/positive contents and the biases that come with that.

## WORK EXPERIENCE

- Notetaker for data science course at McGill University. [January 2024-Ongoing]
- Corrector for physics labs at Marianopolis College. [August 2022-June 2023]

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## EDUCATION

**McGill University, Montreal QC**

Bachelor of Science

Computer Science

(August 2022-Ongoing)

GPA: 3.8 out of 4.0

**Marianopolis College, Montreal QC**

DCS in Honours Health Science

(August 2020-June 2022)

R-Score: 37.825

## TECHNICAL SKILLS

*Programming Languages:*

- Java, C, Python, C++, Bash, MIPS, OCaml, SQL, Swift, Javascript, React
- HTML, CSS (Markup languages)

*Relevant Courses:*

- Algorithm and Data Structures
- Artificial Intelligence
- Programming Languages and Paradigms
- Intro to Software Systems
- Intro to Computer Systems
- Software Design
- Operating Systems
- Algorithm Design
- Database Systems
- Intro to Data Science
- Principles of Web Development
- Distributed Systems
- Machine Learning
- Compiler Design

## SKILLS & QUALIFICATIONS

- Fluent in English and French
- Can work well in teams and independently
- Excellent organization and time-management skills
- Strong communication skills
- Quick learner and willing to learn and put in effort

## LANGUAGES

- English (Fluent)
- French (Fluent)

