

# Greta Ru-Mei Zu

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

## PROJECTS

Artificial Intelligence course final project

- Develop an agent that can play and win against a random agent, a human agent and other agents 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 development project creating a booking tool for school staff and students. The web-stack we used is XAMPP, where the frontend is created using HTML, CSS and Javascript, and the backend is developed with PHP and a SQLite3 database hosted on the McGill SOCS servers.
- [https://www.cs.mcgill.ca/~gzu/socs\\_sisters/landing](https://www.cs.mcgill.ca/~gzu/socs_sisters/landing)

Codejam14 Hackathon project

- Develop a full-stack mobile app - MealMates - 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. The frontend uses React-Native and the backend is developed with Django-rest and SQLite database.

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.

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 and 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, 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

## 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)