Greta Ru-Mei Zu

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PROJECTS

Artificial Intelligence agent (Nov 2023 - Dec 2023)
- 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.

SOC-cessful Schedule (Nov 2024 - Jan 2025)
- Full-stack web development 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

Travel Agency Management System (Feb 2024 - Jan 2025)
- Designed 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 (Jan 2025 - Present)
- Design and create a compiler for Mini-C (a subset of the C) using Java.

Operating Systems project (Jan 2024 - Mar 2024)
- Using C programming language, create an operating system simulation including a shell, memory management and filesystem management.

McWics Hackathon project - BCV (2025)
- 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 (2024)
- 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.

Calendar/Reminder app personal project (July 2024 - Present)
- Develop an iOs Calendar and ToDo list application using SwuitUI 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 - with Professor Vybihal (Sep 2024 - Dec 2024)
- 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]

EDUCATION

McGill University, Montreal QC
Bachelor of Science
Computer Science
(August 2022 - Ongoing)
GPA: 3.83 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)
- REST APIs, databases, Node.js, AWS, Docker, OOP

Relevant Courses:
- Algorithm and Data Structures
- Artificial Intelligence
- Software Systems
- Software Design
- Operating Systems
- Algorithm Design
- Database Systems
- 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)