

Greta Ru-Mei Zu

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

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

WORK EXPERIENCE

Machine Learning Internship - Ericsson (May 2025 - December 2025)

- Creating and onboarding *Retrieval Augmented Generation (RAG)* solutions and processing/inference pipelines using AWS and AWS Bedrock services
- Comparing and evaluation RAG solutions

Notetaker (Data Science course) - McGill University (January 2024 - May 2025)

Corrector (Physics lab) - Marianopolis College (August 2022 - June 2023)

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.

Travel Agency Management System (Feb 2024 - Jan 2025)

- Develop an application for a travelling agency, to 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 - May 2025)

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

McWics Hackathon project - BCV (2025)

- Develop a full-stack web-app (*React*, *Drizzle*, *Postgresql*) that generates a CV with most relevant experience using a job description and Gemini API call.

Codejam14 Hackathon project - MealMates (2024)

- Develop a full-stack mobile app (*React-Native*, *Django-rest*, *SQLite*) for users to swipe through food images from restaurants and match with friends.

Calendar/Reminder app personal project (July 2024 - Present)

- Develop an iOS Calendar and ToDo list application using *SwiftUI* and *XCode*.

RESEARCH PROJECT

Machine Learning algorithms and energy efficiency - with Professor Balmau & Professor Kemme (June 2025 - August 2025)

- Using CodeCarbon to instrument Switch-Transformers and Qwen *Mixture of Experts* models running on different frameworks such as DeepSpeed and FastMoE, and exploring solutions to train models more efficiently in terms of energy consumption.

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.

Contact me:

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EDUCATION

McGill University, Montreal QC

Bachelor of Science

Computer Science

(August 2022 - Ongoing)

GPA: 3.84 out of 4.0

Marianopolis College, Montreal QC

DCS in Honours Health Science

(August 2020 - June 2022)

R-Score: 37.825

TECHNICAL SKILLS

Languages:

- Java, C/C++, Python, Bash, Assembly, SQL, Javascript, PHP, OCaml

Technologies:

- Database systems, Frontend (HTML, CSS), Backend (REST, Node.js), Distributed systems (TCP, Zookeeper), CLI/Shell scripting, AWS, Git, Docker, OOP

Relevant Courses:

- Algorithm and Data Structures
- Artificial Intelligence
- Machine Learning
- Software Systems
- Software Design
- Operating Systems
- Algorithm Design
- Database Systems
- Data Science
- Principles of Web Development
- Distributed Systems
- Compiler Design

LANGUAGES

- English (Fluent)
- French (Fluent)