Yongan Yu

Montréal, Quebec

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Personal Website: https://michaelyya.github.io/Michael_Portfolio/

EDUCATION:

McGill University

AUGUST 2022 - JULY 2026
MONTRÉAL, QUEBEC

Bachelor of Arts in Computer Science Major and Geographical Information System minor

- CIHR, Canadian Inst of Health Research Award

SKILLS:

- Languages: Mandarin (native), English (fluent), French (basic)
- Programming: Python, Java, C/C++, R, Jamovi, CSS, HTML, Javascript
- Tools: Git, Streamlit, Openai, Paraview, Jamovi, VScode, Cmake, Matplotlib

WORK EXPERIENCE:

Undergraduate Research Assistant

JANUARY 2023 - PRESENT
MCGILL UNIVERSITY

Rosalind & Morris Goodman Cancer Institute

- Generated basic bidomain simulation with Chaste through C++ and Python
- Constructed Git source code with ParaView and Cmake
- Solved ODEs and PDEs for making computing the deformation of a nonlinearly elastic body

Teaching Assistant

APRIL 2023 - JUNE 2023
GUANGZHOU, CHINA

JNC Study Abroad Platform

- Implemented "Calculus I" and "Linear Algebra" at Jinan University
- Held office hour, organized discussion sessions and corrected homework assignments

Risks management analyzer

JULY 2020 - AUGUST 2020
GUIYANG, CHINA

China CITIC Bank

- Completed one project - “central bank risk management” with the current risk rating method
- Analyzed 62% of systemic data with complying marketing materials
- Built one proposal and finished two reports quantifying the company's investment risks

Event coordinator

SEPTEMBER 2022 - PRESENT
MCGILL UNIVERSITY

Hack McGill

- Managed with a team to build financial sponsorship from Royal Bank Canada in McHacks
- Developed McHacks 10th coding Hackathon with thousands of students and companies

PROJECTS:

Business evaluation AI model | GPT-4, Python, Matplotlib, Streamlit

- Built an algorithmic tool to generate ratings for the most representative aspects of the circular businesses
- Implemented a search engine and chatbot to foster a comprehensive user experience by OpenAI Embeddings API
- Created the user interface and augmented the UI implementation using Streamlit
- **https://github.com/techandy42/GreenTechGuardians**

Vertex-Based Cell Model | C++, Cmake, Paraview, Linux

- Made a 3D cell-based model simulation to understand early events of the transition of normal tissue to cancer
- Generated Chaste source code through a Linux system through Paraview and Javac
- **https://github.com/Michaelyya/CellModel-making**