VICTOR OUY (He/Him)

CONTACT

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EDUCATION

Concordia University
Bachelor of Computer Science
September 2021 – July 2024
- Data Structures & Algorithms (Grade: A)

National University of Singapore
Study Abroad Program
January 2023 – May 2023

Dawson College
Computer Science (Technical DEC)
September 2018 – May 2021

SKILLS/LANGUAGES

Advanced	Proficient
Java	ASP.NET
Python	Kotlin (Android)
Swift (iOS)	Node.js
JavaScript	React
MySQL	Django
C#	NumPy
HTML5/CSS	PyTorch

ASSOCIATIONS

Director of Technology
Software Engineering and Computer Science Society (SCS)
September 2022 – January 2024

Technology Coordinator
Concordia Canadian Asian Society (CCAS)
October 2021 - April 2024

WORK EXPERIENCE

Mobile Developer Intern (iOS)
Sun Life Financial   May 2023 – August 2023
- Worked in a fast-paced Agile environment, taking on complex tasks such as implementing various proof of concepts demonstrated to shareholders during a bi-weekly sprint review.
- Contributed to the successful launch of the Push Notification feature on iOS platforms by optimizing code for performance and scalability by maintaining O(log n) time complexity.
- Developed the new "Find an Advisor" functionality on the main user iOS application, which helps insured users find and improve connectivity with an advisor.

Software Developer Intern
EDI Gateway   May 2022 – August 2022
- Implemented an interactive home page dashboard feature in C# ASP.NET Core to enhance user interface design, improving webpage accessibility and usability.
- Demonstrated analytical skills by identifying and fixing bugs in data interchange tools by examining the underlying technology to ensure optimal performance and functionality.
- Actively engaged in brainstorming sessions with senior developers, contributing to the ideation of app improvements aimed at fostering a more user-friendly interface.

PROJECTS/HACKATHONS

SmartClass AI   Python · sklearn · PyTorch
- Developed a Convolutional Neural Network (CNN) artificial intelligence for detecting human emotions and classifying facial expressions, achieving an accuracy rate of over 75%.
- Implemented bias mitigation by diversifying our dataset, increasing the accuracy and precision level for non-binary and gender-fluid individuals by ~10%.

Mental Health Alphabet   JavaScript · HTML5/CSS
- Designed a mental health awareness web application and placed 1st for Best First Hack at the McHacks hackathon.
- Successfully delegated tasks to team members, effectively leveraging their expertise in areas such as graphic design and hands-on coding experience, ensuring a holistic and well-rounded approach to the project's development.

Email Client   Java · MySQL
- Engineered an email client in Java, integrating communication protocols and the DAO pattern, enabling seamless user login for sending and receiving emails.
- Facilitated attachment functionality and authentication through robust Unit tests, while creating a user-friendly GUI using JavaFX for enhanced accessibility.

Genetic Algorithm (Robby the Robot)   C#
- Implemented a genetic algorithm and evolutionary computation to evolve control strategies based on mutations and fitness levels.
- Utilized MonoGame to visualize the evolutionary process, showcasing the enhanced grid-based node navigation.

Scrabble Game   Java
- Developed game logic utilizing data communication between server and client
- Implemented multithreading and customized the AI algorithm on the server side to enable local multiplayer functionality