

Jia Hao Choo

SECOND YEAR COMPUTER SCIENCE STUDENT AT THE UNIVERSITY OF TORONTO

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Education

University of Toronto

Toronto, Ontario, Canada

HONOURS BACHELOR OF SCIENCE - COMPUTER SCIENCE SPECIALIST (FOCUS IN AI) & STATISTICS AND GIS MINORS

Sep. 2020 - Present

- Accepted into Munk School's Munk One Program (1 out of 24 students for the 2020-21 Cohort)
- Accepted into Technology Leadership Initiative (1 out of 23 students for the 2021-22 Cohort)

Projects

Full stack program that calculates auto loan options and approval likelihood

[HTTPS://GITHUB.COM/AUTOTRADER-PLUS](https://github.com/AUTOTRADER-PLUS)

- Set up and deploy RESTful server written in Java (using the Spring Boot framework) on AWS EC2
- Use Java to write backend logic like calculating loan options and approval likelihood based on user financial input
- Use AWS RDS to set up and connect web server with MySQL database to store and retrieve user and car information
- Build a responsive website using React framework with HTML, CSS and JavaScript, and deploy it through AWS Amplify

Python program predicting COVID-19 cases growths based on policy restrictions.

[HTTPS://GITHUB.COM/JIAH29/CSC111_COVID_POLICIES](https://github.com/JIAH29/CSC111_COVID_POLICIES)

- Use Python to write code that calculate COVID-19 cases growths based on past data
- Use Plotly, pandas and NetworkX to represent the result in an animated line graph and map format.

Python program examining the relationship between money and climate change

[HTTPS://GITHUB.COM/JIAH29/CSC110-PROJECT-CLIMATE-CHANGE-EXPLORATION](https://github.com/JIAH29/CSC110-PROJECT-CLIMATE-CHANGE-EXPLORATION)

- Use Python to write code that analyses the correlation between income in different sectors and carbon emissions
- Use Plotly to represent the result in an animated line graph format.

Personal portfolio website

[HTTPS://GITHUB.COM/JIAH29/JIAH29.GITHUB.IO](https://github.com/JIAH29/JIAH29.GITHUB.IO)

- Build and design a personal portfolio website from scratch using HTML and CSS
- Use JavaScript to add animation to the text and photo.
- Use the Bootstrap framework to make the website responsive to different device sizes using a mobile-first design.

Extracurricular Activities

Alpha Ambassadors

MICROSOFT STUDENT LEARN AMBASSADORS PROGRAM

Jul 2021 - Present

- Admitted to the Microsoft Student Learn Ambassadors program, which is a global group of oncampus ambassadors who are eager to help students and their communities, lead in their local tech circles, and develop technical and career skills for the future.

Technical Director & Mentor

Toronto, Canada

GOOGLE DEVELOPER STUDENT CLUB, UTSG

Sep 2020 - Present

- Write technical blogs and deliver and facilitate technical workshops every month to assist students to develop technical skills and aptitude.
- Mentored 3 Google Solution Challenge project groups by offering my skills and insights in Google technology.

Curriculum Developer & Teaching Assistant

Toronto, Canada

UoFT AI

May 2021 - Present

- Create new lecture content on Generative Adversarial Network and improve existing lectures so that they are more intuitive to understand.
- Assist in leading tutorial sessions for LearnAI, a beginner AI course in UofT AI.

Orientation Leader & Student Mentor

Toronto, Canada

WOODSWORTH COLLEGE

May 2021 - Present

- Provide advice and guidance to new, incoming students by sharing my experience, skills, and opportunities on and off campus.

Skills

Software Development

AWS Technology, Git, Agile Development, SOLID Design Principles, Clean Architecture, Unit & Integration Testing

Back-end & Database

Java Spring Boot, REST API Development, Node.js, Express.js, MongoDB, MySQL, Algorithms, Data Structure

Front-end

React.js, HTML5, CSS, JavaScript, Bootstrap

Programming

Python (Pygame, Plotly, NetworkX, Numpy and Pandas), Java, LaTeX, C#, R, C, Linux Scripting

Data Science

Data Modelling, Visualization & Analysis, Machine Learning (tensorflow, keras, scikit-learn)

Other Technical Skills

Unity Game Development, Microsoft Office (Word, Excel, PowerPoint, Access), ESRI ArcGIS

Languages

English, Chinese, Malay