

# 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