

# Yong Le He

## Skills Summary

Languages	HTML/CSS   JavaScript   TypeScript   SQL   Python   Java   C/C++   Bash   Golang
Libraries	React.js   Next.js   Node.js   TailwindCSS   Flask   Pandas   NumPy   Matplotlib
Tools	GIT   Firebase   Supabase   PostgreSQL   MongoDB   Android Studio   Jupyter Notebook

## Education

Sep 2022 - present	<b>Honours Bachelor of Computer Science</b> , <i>University of Toronto Scarborough</i> ○ CGPA: 3.82/4.00
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## Technical Projects

Jan 2024	<b>, DS3 Datathon</b> ○ Created 3 machine learning models using the <b>CNN</b> , <b>SVM</b> , and <b>Random Forest</b> algorithms winning an overall 6th place in the competition ○ Researched about the features of the dataset, analyzing its covariance with the target variable using <b>Matplotlib</b> and data manipulating libraries to implement the machine learning model in <b>Tensorflow</b> and <b>Keras</b>
Dec 2023	<b>Thomp - Social Media Cloud App</b> , <i>Personal Project</i> , Full-stack Developer Demo: Website URL ○ Engineered a secure authentication system using modern <b>JWT</b> token-based authentication to ensure secure connection to API endpoints in the <b>Golang</b> backend server ○ Architected application using <b>Supabase</b> services as the cloud infrastructure for seamless integration of storage, authentication, and database functionalities, providing fluid user experience ○ Designed and optimized database schema, incorporating advanced <b>PostgreSQL</b> features such as functions, triggers, and cron jobs, resulting in improved database performance and the removal of unnecessary data
Oct 2023	<b>College Coin</b> , <i>Hack the Valley 8</i> , Full-stack Developer ○ Conceptualized and developed a student loan marketplace using <b>JavaScript</b> and <b>MongoDB</b> to promote affordable education by streamlining the lending process, winning a top 50 placement ○ Implemented the <b>Next.js</b> framework and <b>React.js</b> server components, resulting in a remarkable 70% reduction of client-side JavaScript payload

## Course Projects

Jul - Aug 2023	<b>Javan's Mall</b> , <i>Introduction to Software Design</i> , Android Developer ○ Utilized Object-Oriented design principles in <b>Java</b> to ensure code reusability, extensibility, and readability within the application ○ Created comprehensive unit tests with <b>JUnit</b> , while effectively mocking dependencies using <b>Mockito</b> , achieving 100% line coverage ○ Applied the <b>scrum</b> methodology and actively participated in all meetings, facilitating efficient communication and knowledge sharing to achieve a 4.0 on the project
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## Work Experience

Jun 2023 - present	<b>Student Scheduling Assistant</b> , <i>University of Toronto Scarborough, Toronto, ON</i> ○ Identified and proposed creative room-change solutions, allowing for the availability of larger rooms for other events, optimizing space utilization ○ Developed a collection tool using Microsoft's SharePoint API and <b>VBA</b> , automating the enrolment control gathering process and increasing efficiency
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