Yong Le He

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Skills Summary

Languages: HTML, CSS, JavaScript, TypeScript, SQL, Python, Java, C, Bash, Golang

Libraries and Frameworks: React.js, Next.js, Node.js, TailwindCSS, Flask, Pandas, NumPy, Matplotlib

Cloud and Database: Firebase, Supabase, PostgreSQL, MongoDB

Tools: GIT, Android Studio, Jupyter Notebook

Education

University of Toronto Scarborough   **Sep 2022 - present**
Honours Bachelor of Computer Science
CGPA: 3.78/4.00

Projects

Data Science Accuracy Competition   **Jan 2024**
DS3 Datathon

- Created three machine learning models using the **CNN**, **SVM**, and **Random Forest** algorithms in **Keras** and **Tensorflow**, winning **6th** place in the competition
- Conducted research on the features of the dataset, analyzing their importance and covariance with the target variable using **NumPy, Pandas** and **Matplotlib**, resulting in cleaner data and an accuracy of **97%**

Thomp — Social Media Cloud App   **Dec 2023**
Personal Project, Full-stack Developer
Demo | Github

- Implemented a secure **JWT** token-based authentication system, providing a strong and secure protection for the **Go** backend server against security threats
- Engineered an application architecture using **Supabase** services as the cloud infrastructure provider for seamless integration of storage, authentication, and database functionalities, offering a fluid and intuitive user experience
- Designed and optimized database schema, incorporating advanced **PostgreSQL** features for event triggers and the automatic removal of unnecessary data, decreasing database size by **a significant amount**

College Coin   **Oct 2023**
Hack the Valley 8, Full-stack Developer

- Conceptualized and developed a student loan marketplace using **JavaScript** and **MongoDB** to promote affordable education by streamlining the lending process, winning a top **50** placement
- Implemented the **Next.js** full stack framework with **React.js** server components, resulting in a remarkable **70%** reduction of client-side JavaScript payload

Javan's Mall   **Jul - Aug 2023**
Course Project, Android Developer
Github

- Utilized **Object-Oriented** design principles in **Java** to ensure code reusability, extensibility, and readability within the application, leading to increased developer efficiency throughout the project
- Created comprehensive unit tests with **JUnit**, while effectively mocking dependencies using **Mockito**, achieving **100%** line coverage
- Applied the **scrum** methodology and actively participated in all meetings, facilitating efficient communication and knowledge sharing to achieve a **4.0** on the project

Work Experience

Student Scheduling Assistant   **Jun 2023 - present**
University of Toronto Scarborough, Toronto, ON

- 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 **VBA**, automating the enrolment control gathering process and increasing efficiency