

# HSIEH BOH YANG

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## EDUCATION

Nanyang Technological University, Singapore  
Bachelor of Engineering in Computer Science

Aug 2021 – Jul 2025 (Expected)

- Relevant Modules: Data Science & Artificial Intelligence, Data Structures and Algorithms, Object-Oriented Programming, Algorithm Design and Analysis, Databases, Artificial Intelligence, Software Engineering.

## PROJECTS

Software Engineering Group Project (Team Leader)

Feb 2023 – Apr 2022

Title: ParkIt (Carpark finding mobile application)

- Ideated and documented the application's Software Requirements Specifications.
- Developed a cross-platform mobile application using React Native, Expo, Firebase and Firestore, which provides users with carpark information such as lot availability and parking fees.

Object-Oriented Programming Group Project

Oct 2022 – Nov 2022

Title: Movie Booking and Listing Management Application (MOBLIMA)

- Console-based application developed in Java for the viewing of movie and cinema details, booking and purchasing of tickets as well as the viewing of booking history.

Introduction to Data Science & AI Pair Project

Mar 2022 – Apr 2022

Title: Prediction of Spotify Song Popularity

- Performed data cleaning and preparation on a large dataset (> 40,000 rows) using Python.
- Leveraged on NumPy, Pandas, Matplotlib and Seaborn libraries for data analysis and visualizations.
- Utilized various machine learning algorithms from Scikit-learn such as Random Forest and Nearest Neighbors Regression to produce data driven conclusions.

## PROFESSIONAL EXPERIENCE

NCS Group: DSTA Tech Refresh team

May 2023 – Dec 2023

(Full Stack) Software Engineering Intern

- Frontend development of responsive pages using Angular, Ant Design component library and Less CSS.
- Built RESTful APIs with Java Spring Boot to query and process data from a MS SQL Server database.
- Followed through the entire SDLC of 2 web applications translated from existing OutSystem applications.
- Implemented Auth Guard and Role-Based Access control with JWT authentication for both applications.
- Automated the applications' extensive unit and system testing using UiPath.

AI amazing Pte Ltd

Mar 2021 – Jun 2021

IT Operations Intern

- Oversaw inventory management for the Singapore branch and worked with Taiwan counterparts.
- Identified key problem areas causing inventory shrinkage and presented insights directly to COO; Implemented a new periodic inventory system and lowered the monthly inventory shrinkage by over 75%.
- Communicated with over 100 clients and vendors to identify and troubleshoot any technical issues.

Singapore Armed Forces

Dec 2019 – Nov 2020

Platoon Commander / Logistics Officer

- Pivotal role in the execution of several large-scale army level and battalion level events.

## LEADERSHIP AND CO-CURRICULAR ACTIVITIES

Nanyang Technological University, Singapore

Captain of Hall 16 Squash Team

Aug 2021 – Apr 2023

- Handled the team's administrative matters, established a strong culture of teamwork among the members.

Group Leader for Students' Union Freshman Orientation Committee

Aug 2021 – Aug 2022

- Planned and executed numerous Students' Union activities, including the Freshman Orientation Camp.

## TECHNICAL SKILLS

Programming Languages: C, Java, Python, SQL, HTML, CSS, JS, TS

Software: Figma, Linear, Git, Tableau, MS SQL Server, PostgreSQL, Firebase/Firestore, UiPath, Postman

Frameworks / Libraries: React Native, React, Angular, Spring