Loo Siong Yu (Singaporean)

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EDUCATION

Singapore Institute of Technology   *Sept 2022 – **Aug 2025** (Expected)*
- **Bachelor of Science with Honors in Computing Science**
- **Specialisation: Internet of Thing**
- **Relevant Modules**: *(1) Web Programming (2) Data Structures and Algorithms (3) Database Systems*
  (4) Object-Oriented Programming (5) Cloud and Distributed Computing

Nanyang Polytechnic   *May 2016 – May 2020*
- **Diploma in Financial Informatics**

INTERNSHIP EXPERIENCE

PSA Singapore (Internship)   *Sept 2019 – Nov 2019*
- *Created a playback event Java Application for the company's aRMG cranes using Java Swing, a GUI widget toolkit of Java to playback the cranes' event on the previous day with event log file being fed in.*
- *Aided the engineers in enhancing a PHP file which generate a map that pinpoint the location of the Prime Mover through the log file retrieved from their server, using Unix scripting.*
- *Ad-hoc task: migration of server, enhancement of analytic charts using QlikView application.*
- ***Applied Java programming.***

ACADEMIC PROJECTS

1. **Doctor Go Web Application**
Module – Cloud and Distributed Computing
- *Web Framework: Svelte*
- *Language: JavaScript*
- *Assisted to package frontend application into docker file. Part of testing the setup of Kubernetes for the application. Did frontend for some of the pages in the application.*
- *The aim of this project is to design and implement a cloud-based distributed system/application, incorporating cloud native framework such as container and/or Kubernetes.*

2. **Form Builder Library**
Module – Web Programming
- *Web Framework: CodeIgniter*
- *Language: PHP*
- *Assisted by reverse engineering on regenerating user's existing form HTML element out onto the programmer's IDE.*
- *The aim of this project is to design a library with basic HTML components so that other programmers who uses the library can call it, customize it, and use it. The basic HTML components designed must be able to generate a form like Form 1040 U.S. Individual Income Tax Return.*

3. **Health Companion Web Application**
Module – Database Systems
- *Database: PostgreSQL (relational) and MongoDB (non-relational)*
- *Web Framework: Ruby on Rails*
- *Language: Ruby*
- *Assisted by validation checking if user have completed a patient profile in the application upon trying to book an appointment*
- *Apply queries to retrieve patient's records*
- *The aim of this project is to design and develop a database application that make use of both a relational database and a non-relational database. A database at the backend and a graphical interface as the front-end.*

4. **Shortest Route Application**
Module – Data Structures and Algorithms
- *Language: Python*
- *The aim of this project is to design and implement the shortest route a user can get from point A to point B. Dataset given are several bus-stops in Johor Bahru and routes have to be planned based on the bus-stops' geolocation. User can choose two shortest routes, either calculated via number of bus-stops in the route or the amount of time taken to reach the destination.*

5. **Quiz Mobile Application**
Nanyang Polytechnic Final Year Project
- *Framework: React Native*
- *Language: React.js*
- *Operating System: Android*
- *Assisted in developing a quiz mobile application that allow students to take their school quizzes using their own mobile devices. The project was handed over to another student after I graduated.*

CO-CURRICULAR ACTIVITIES / LEADERSHIP / NATIONAL SERVICE

Singapore Police Force, *Ground Response Force (Rank: Sergeant)*   *Feb 2021 – Aug 2022*
- *Attended to 999 calls, lodging reports for victims.*
- *Conducted patrol around neighbourhood to keep the vicinity safe.*
- *Received commander awards for good cases.*
- *Attended a one-week leadership camp to gain the promotion from first sergeant to second sergeant*

MakerSpaceNYP, *Student Assistant Coach and President*   *Jul 2017 – Mar 2020*
- *Elected as **President of the Student Assistant Coaches Executive Committee**, helped to implement new initiatives to improve the operation of MakerSpaceNYP.*
- *Provided guidance to students and NYP staffs on the usage of machines.*
- *Conducted workshops such as t-shirt printing and embroidery for students and NYP staffs.*
- *Assisted coaches (lecturers) on the everyday operation of MakerSpaceNYP.*

NYP School of Information Technology Club, *Member*   *Apr 2018 – Mar 2019*
- *Participated in the club events such as Open House, promoting the course outline to open house visitors.*

SKILLS
- ***Web Programming:*** *React JS , JavaScript, PHP*
- ***Web Framework:*** *Svelte, CodeIgniter, Ruby on Rails, React Native*
- ***Software Programming****: Python, C, Java*
- ***Data Analysis Tools****: SQL, Python, Microsoft Excel*
- ***Development Tools****: VSCode, Jupyter notebook, CodeBlock*
- ***Software Application****: Adobe After effects, Adobe Premiere Pro, Adobe Photoshop, Microsoft Office, Words*
- ***OS****: Linux, Windows*

LANGUAGES
English, Professional
Chinese, Native

WORK EXPERIENCE
- ***HonestBee Pte Ltd,*** *Food Coordinator / Administrative Assistant / Delivery Support / Customer Service*
- ***World of Sports Pte Ltd,*** *Retail Assistant*
- ***NCS Pte Ltd,*** *Technician Assistant*