YAO LONG TAN

# Penultimate Computer Science Student in Singapore Management University

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**PROFILE**

Highly motivated, diligent, and driven undergraduate pursuing Computer Science at Singapore Management University.

Experienced with various programming languages, willing to take on ambitious projects and embrace challenges.



**E M P L O Y M E N T HIST ORY**



**Software Engineer Intern, Azendian Solutions . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ………………………………………………………**

May 2023 — Present

Singapore

* Created backend endpoints RESTful APIs to return relevant information to the frontend.
* Create and debug codes with proper code practices with relevant documentation to allow future maintainability.
* Testing edge cases of autonomous vehicle framework using Apollo with LGSVL simulator.



**Research Assistant for Autonomous Vehicle Algorithm Testing using**

**LawBreaker Intern, Singapore Management University**

Jun 2022 — Aug 2022

Singapore

* Interfaced with the source code of Apollo Autonomous Driving System to find solution for the problem.



**Part Time Administrator, Top Taekwondo Academy**

May 2021 — May 2022

* Ensure smooth day-to-day operations in the company.
* Ad-hoc administrative matters such as compiling excel sheets, attendance, etc.
* Designed and created several marketing collaterals such as the current banner for Top Taekwondo Academy Serangoon and short unlisted marketing video.

Singapore



**Autonomous Electric Vehicle Intern, Singapore Polytechnic**

Mar 2020 — Aug 2020

* Improved the performance and algorithm of the vehicle to be able to steer autonomously using the Autonomous Navigation feature.
* Programmed the Electric vehicle using Robot Operating System to maneuver the vehicle autonomously.
* Developed our own driving formula for the car-driving system.

Singapore

**EDUCATION**



**Singapore Management University**

Aug 2021 — Present

*Bachelor's Degree in Computer Science* Singapore



**Singapore Polytechnic**

Apr 2018 — Apr 2021

*Diploma in Computer Engineering* Singapore

* Graduated with Cumulative GPA: 3.87/4.00
* Director's List AY20/21

**SKILLS**

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| Java . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | Docker . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |
| Javascript . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | C/C++ . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |
| Python . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | Adobe Premiere Pro/Photoshop . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |
| ReactJS/VueJS . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | Microsoft Word/Excel . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |
| ExpressJS . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | Git/GitHub . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |
| Figma . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | ROS . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . |

**PROJECTS**



**Bussin Carpooling App**

Aug 2022 — Nov 2022

**Bussin** is a **carpooling** service that serves to bridge the gap between public transport and ride-hailing services through better utilization of privately owned cars through ride-sharing to reduce traffic volume, especially during peak hours. **Bussin** mainly serves those who have predictable travel schedules – enabling the platform to find the ideal match between drivers’ and commuters’ routes by taking advantage of the predictability of their routes.

* Used Spring Boot as the main back-end infrastructure.
* Worked collaboratively in a group, using Scrum project management and Git workflow.
* Awarded the Credit Suisse Project Award.

Singapore



**Project Member for Singapore Polytechnic IoT Vertical Farming**

Apr 2020 — Jun 2020

* IoT-Enabled automated system that allows the monitoring of plant growth.
* Won the Lee Hsien Loong Interactive Digital Media Smart Nation Award 2020.

Singapore

**E X T R A - C U R R IC U L A R A C T IV IT IE S**



**Honorary General Secretary**

Aug 2022 — Present

*SMU Whitehat Society* Singapore

* Assist the club with all administrative work such as crafting email blast messages, and collation of names to be submitted for official records.
* Produces meeting minutes and ensures the club is running is a smooth manner whilst keeping deadlines in check.



**Quarter Master/Executive Committee**

Jul 2018 — Jan 2020

*Singapore Polytechnic International Students' Club* Singapore

* Manages the club properties of the club and ensures the club room is tidy at all times.
* Organized more than 12 events together with committee batch mates. Chairperson of International Students' Freshmen Orientation Program
* Administer the planning and the execution of the event held in Palawan Beach, Sentosa which had achieved more than 200 signups in a week.



**School Ambassador**

Aug 2018 — Jan 2020

*Singapore Polytechnic, ACERS* Singapore

Student Ambassadors for Singapore Polytechnic's School of Electrical and Electronic Engineering where I introduced the school and described my experience as a student in SP. Additionally, I was involved in SP's Open House as a Student Helper, where I had the opportunity to engage secondary school students and parents.