

Tai Kah Kiang

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EDUCATION

National University of Singapore (NUS)

Aug 2020 – Present

Bachelor of Engineering (Computer Engineering) – CGPA 4.68 (as of Dec 2021)

Methodist of College Kuala Lumpur

Jan 2018 – Jun 2019

Cambridge A -Levels (Physics, Chemistry, Mathematics, Further Mathematics); 4A*'s

- Gold Award (Senior Category) in Malaysian Computing Challenge 2018
- Distinction in Malaysian National Chemistry Quiz 2019

PROJECT & RELEVANT EXPERIENCES

GIC, Fullstack Software Developer Intern [React, Django, Java Springboot, Pandas, SQL]

May 2022 – Present

- Implemented and enhanced existing dashboard for convertible trades
- Automated workflow using Apache Airflow
- Designed RESTful APIs, and using JPA Method Queries to communicate with the database

RHDevs, Junior Frontend Developer [React, Typescript, Redux, HTML, CSS]

Aug 2021 – Present

- Proposed a simplified user interface for RHApp (an app to manage hall activities) by working in a team of 5 programmers and designers
- Applied latest web development framework (React (typescript based), Redux) for the official RHDevs website

FPGA timer/ mapping project [Verilog, Python]

Aug 2021 – Nov 2021

- Designed a clap-activated timer/stopwatch with an LED display and microphone using a Basys-3 Artix-7
- Integrated a route mapper for hiking purposes as another feature
- Implemented FPGA design, digital logic, gate designs, synchronous and asynchronous designs
- Created a small python software that takes in a picture, crops in and automatically converts it into RGB565 format that fits the 0.96' OLED display

Infrared detection and area-mapping robot [ROS2, CLI, Linux, Python]

Jan 2021 – May 2021

- Accomplished a raspberry-pi powered, ROS2 programmed Turtlebot that navigates itself through an area and produces a complete map, while shooting a ping-pong ball at any infrared target detected
- Led the design of the shooting mechanism and the integration to the bot, CAD-ed using Solidworks
- Aided in the programming of the detection and threshold measurement to ensure accurate results

WORK EXPERIENCES

Pusat Tuisyen Tomato & Self-employed, Tutor

Aug 2019 – Mar 2020

- Guided more than 150 students of various ages (7 to 12) on homework, prepared and conducted lessons to students while also evaluated and provided feedbacks to students' completed work, motivated and instilled proper learning methods to the students

Setel by Petronas (e-payment application for petrol), App promoter

Jul 2019

- Introduced the new app to Petronas' customers and guided new users on registering and topping up
- Communicated with prospective clients and gained a new customer base of 120 in a week

CO-CURRICULAR ACTIVITIES & VOLUNTEERING EXPERIENCES

NUS Student Union Student Life Fair, Treasurer

Dec 2020 – Aug 2021

- Executed and organized a hybrid physical- online event promoting the student organisations in NUS for over 7000 students, and was in charge of budget projection, items sourcing and liaising with manufacturers

NUS Engineering Club (Student Life) , Vice Project Director & Publicity member

Aug 2020 – June 2021

- Formulated a welfare event for over 4800 engineering students amidst covid restrictions with over 50% participation rate

AIESEC Global Volunteer in Xuzhou, China

Jul 2019

- Planned and conducted English lessons for children in rural areas

Malaysian Independent Animal Rescue (MIAR)

Mar 2018

- Spearheaded and executed a 4 week-long voluntary experience for the wellbeing of stray dogs.

SKILLS AND INTERESTS

Technical - Proficient: Python, C, C++, Java, Verilog, HTML, CSS | **Intermediate:** Java/Typescript, React, Redux

Others: Photoshop, After Effects, Premiere Pro, Solidworks (CSWA certified), Git/Github

Interests: Guitar, music making, anime, robotics, cooking, reddit, spiderman, food