



KANG MING TAY

Learner, Thinker, Doer

Bachelor of Computing (Honors) in Computer Engineering

National University of Singapore

Singapore-Cambridge General Cert of Education Advanced Level

National Junior College (Integrated Program)

ABOUT ME

My friends think I am crazy about basketball. While they may have a point, as I look back on my love for sports, I realize it has shaped me to be the person I am today – competitive, resilient and hardworking. Sports have taught me there are many ways to win, and that I have to constantly think on my feet, find gaps and exploit them in order to win. This has sparked my interest in entrepreneurship because I feel there is still much value to be created in society, especially given the recent advancements in technology, where I as a Computer Engineer, am ready to explore.

Starting up is not entirely new to me. In 2018, I participated in a summer software development project (Orbital) where students propose, design, implement and market industrial solutions using computing technologies. For this project, my team and I developed an Augmented Reality Furniture Mobile Application using Google's ARCore to impose 3D furniture models into real time space. We won the honorary mention award and a SGD 10,000 grant from the university to turn our idea into a feasible business. While this is still in infancy, I knew I had to grab the opportunity to embark on the NUS Overseas Colleges program to Toronto where I could talk and walk with fellow entrepreneurs and see first-hand what it takes to run and scale successful startups. I know this opportunity will be challenging, but it will definitely widen my horizon and provide me with fresh perspectives.

I know I am not going to Toronto just to learn but more importantly, I hope to contribute to my internship company with the skills I have acquired through my education and experience. I am versatile enough to take on both front and back-end roles, and am currently interning as a full stack developer at *Pitchspot*, a startup that deals with idea sharing in Singapore. My job entails the use of Firebase, AngularJS and NodeJS to implement new web features as well as to generate new business ideas. This internship has made me more comfortable with learning new programming languages and frameworks on the go as well as working with a huge code base.

I previously interned at *NETS* (Network for Electronic Transfers), a Singapore electronic payment service provider, where I was given the opportunity to test out their online payment gateway API by building my own online e-commerce website and integrating the eNETS payment gateway with it. Also, I had the opportunity to design a context-based chatbot using the Google DialogFlow API to assist merchants with the onboarding and integration process. Through this internship, I learnt the importance of keeping the API user-friendly for other developers and how chatbot services can be used to improve business efficiency and operations.

Furthermore, before I enrolled in NUS, I did an internship at a start-up called *Savant Degrees*, a digital innovation studio, where I used Tableau to analyze the client's customers data and used charts to improve data visualization. I also made front-end changes using HTML, CSS and Javascript for the client's website which are still running in live production. Personally, I found this internship quite a challenge as I did not have much programming experience back then and had to pick up many new skills along the way. However, it taught me the important skill of adapting to adversity by learning quickly.

In addition to my proficiency with computers, I enjoy social interactions as well. I certainly enjoy public speaking and was able to exercise this ability as an officer in the Singapore Armed Forces. Here, I was in charge of soldiers' training and cohesion and enjoyed interacting with people from all walks of life, most of whom were older than me. I am also excited to make an impact in my own community as well. During my stay in Residential College 4 in NUS, I developed a telegram chatbot to digitize a social activity based on Secret Santa that enables participants to message their partners anonymously.

I am excited for the opportunity to live, work and even play in Toronto. Even though I am sure that there will be tough times along the way, I am ready to go into overtime if necessary to make sure my team hits the hoop. I also look forward to developing myself personally and seeing what life has in store for me.

WORK EXPERIENCE

Pitchspot

Sept 2018 – Present

Full Stack Developer Intern

- Assisting the team in improving both the frontend and backend systems development of the Pitchspot Toolkit using Google cloud functions, AngularJS and Google Firebase

Wunder Travel

Jul 2018 – Sept 2018

Software Developer Intern

- Assisted the team in maintaining the frontend system of the website using WordPress
- Assisted in the business development aspect by searching for potential travel agencies to collaborate with and sell tour packages through the Wunder Mobile App

Network for Electronic Transfers (NETS)

Jul 2018 – Sept 2018

Application Support Intern

- Designed a contextual chatbot using Googles DialogFlow to assist merchants in the boarding and integration process.
- Designed a web application and integrated the eNETS payment gateway portal onto the web application to test and review the integration process
- Wrote sample codes in Python and C++ for the eNETS payment gateway API

Savant Degrees

May 2017 – Jun 2017

Software Developer Intern

- Assisted the software development team in developing the frontend and backend systems to suit the client's needs using HTML, CSS, Javascript and Java
- Participated in the Restaurant Association of Singapore (RAS) F&B Hackathon 2017. Designed an aggregated digital platform app during the hackathon for different restaurants to upload their menu and track orders made by the customers

SCHOLASTIC ACHIEVEMENTS / EXTRACURRICULAR ACTIVITIES

Aug 2017 – Present

National University of Singapore

- Won the Honorary Mention Award for NUS Orbital 2018
- Emerged as one of the top groups for the final robotics project of Engineering Principles and Practice 2 module

Aug 2017 – Present

U-Town College Programme (Residential College 4)

- Served as an orientation group leader for Residential College 4
- Developed a telegram chatbot to digitize a social activity based on Secret Santa that enables participants to message their partners anonymously
- Vice-Captain of Inter-Faculty Games Basketball Team 2018 (clinched 2nd place)

Jan 2013 – Dec 2014

National Junior College (Integrated Programme)

- Vice-Captain of Basketball Team

PROFESSIONAL SKILLS

Office Productivity

Microsoft Word, Powerpoint, Excel

Proficient

Web

HTML, CSS

Proficient

Django, Flask, NodeJS

Intermediate

AngularJS

Basic

Database

SQL

Basic

Programming

Python, C++, C

Proficient

Java

Intermediate

Javascript

Basic

Markup

XML

Basic

Operating Systems

Windows 10

Intermediate

Hardware Design

VHDL

Intermediate

Circuit design

Intermediate

Non-technical Skills

Project Management

Basic

Writing/Publications

Basic