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EDUCATION

Nanyang Technological University (NTU)

Aug 2019 – Jun 2023 (Expected)

School of Electrical and Electronic Engineering

- Bachelor of Engineering (Electrical and Electronic Engineering)
- Upper-Second Class Honours; CGPA: 4.39 / 5.00
- Specialisation: Info-communications Engineering (Computer Engineering)
- Relevant Modules: (1) Introduction to C Programming (2) Data Structure and Algorithms (3) Introduction to Data Science and Artificial Intelligence (4)

ACADEMIC PROJECTS

NTU Introduction to Data Science and Artificial Intelligence: **Prediction of Pet Adoption with XGBoost and Linear Regression Model**Aug 2020 – Dec
2020

- Developed Machine Learning with XGB and Linear Regression for the data collected for Pet Adoption in Kaggle
- Reflected the results of the 2 models used using **SHAP** (Shapely Additive Explanation)
- Compared the 2 models to see which model is more accurate

NTU Design and Innovation of Project: **Development and Implementation of Blockchain-based Energy Trading Platform for Microgrids**Aug 2021 – Dec
2021(Expected) (Team of 5 Members)

- Develop smart contracts through **Solidity** Programming to create a platform for people to trade energy on the blockchain platform using cryptocurrency
- Develop Web through Web3 and ReactJs for customers to easily access and trade on the trading platform
- Create Local Ethereum Blockchain Network using Go Ethereum to simulate and test processes on the blockchain trading platform

INTERNSHIP

NEC APAC- <u>Summer Intern</u> (Public Safety Business Department)

May 2021 – Jul 2021

Assisted in engineering projects for the supervisor

Internship Project Attachment: Project Life Cycle

- Executed many test cases with use of Lidar Sensors to detect social-distancing in Crowds
- Stimulate Real-Life Crowd Movement using Python application for more test cases
- Liaised with Ministry of Home Affairs and HTX for the project development to be implemented
- Designed and deployed the applications to **Docker** and into **Azure Cloud Services**
- Pushed Data collected from Lidar Sensors into Azure Cloud Database and Local Database such as PostgreSQL and MSSQL

Panasonic R&D – *Full-Stack Developer Intern* (R&D Department)

Jan 2022 - July 2022

Internship Project: SISP Improvement Project

- Improved their existing system of SISP implemented with Flask and Python
- Created new databases for the system with noSql such as MongoDb and Redis
- Connected many IoT devices to the system with Python as the main language
- Integrated the new Frontend Platform into the SISP system with Typescript and NextJs
- Enhanced and created modules for the system

Internship Project: **POC-Project with tracking sensor (Proof of Concept)**

- · Helped in creating new modules to track people with their identity in the environment
- Created dashboard for users using HTML,CSS and Javascript
- Improved the existing map by adding heatmap with Javascript and HTMLCanvas
- Assisted in the demonstration of the of the Project to customers

ACHIEVEMENTS / AWARDS / RECOGNITION

• Badminton A division 4th in Nationals

2016, 2017

• Badminton B, C Division 2nd and 3rd in North Zone

2012 - 2015

LEADERSHIP / CO-CURRICULAR ACTIVITIES / COMMUNITY INVOLVEMENT / VOLUNTEERISM

Hall 12 Block Manager (NTU)

Aug 2019 - May 2020

- Conducted events in hall for respective blocks
- Disseminate information from the top into the residents

Hall 12 Badminton Captain (NTU)

Aug 2020 – Mar 2021

- Mentored members to play badminton
- Managed and conducted trainings for all residences residing in Hall 12.

NATIONAL SERVICE

Forklift Maintenance 2IC (SAFAC)

June 2017 – Jan 2019

- Maintained Forklift's condition to be always in their prestige condition
- Spearheaded Forklift Safety Projects to better track movements of forklifts and capture incidents with Video Cameras

SKILLS / HOBBIES

- Languages: Fluent in English and Chinese (Mandarin); conversational in Japanese
- Software Programming: C Language, HTML, CSS, JavaScript, ReactJs , Python
- Software Applications: Microsoft Office 365 (Excel, Word, PowerPoint)
- License: Driving License Class 3A
- · Hobbies: Sports(Badminton)