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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– Summer Intern (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**

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)