

EDUCATION

Nanyang Technological University (NTU)

Aug 2019 – Jun 2023 (Expected)

School of Electrical and Electronic Engineering

- **Bachelor of Engineering (Information Engineering and Media)**
- **Honours (Merit)** (Expected)
- Relevant Modules: (1) *Software Engineering* (2) *Data Structure and Algorithms* (3) *Web Application Design* (4) *Interface Design* (5) *Object Oriented Programming* (6) *Database Systems* (7) *Web Design and Technology* (8) *Introduction to Data Science and Artificial Intelligence* (9) *Artificial Intelligence and Data Mining*

ACADEMIC PROJECTS / MODULE PROJECTS

NTU-IEM Final Year Project: ***The Sewing Application***

Aug 2022 – May 2022

- Expected to apply **Dart Programming** (Flutter) to design, code and develop mobile application to assist sewing beginners to acquire sewing knowledge and skills via virtual learning.
- Deploy UI/UX design tool, **Figma** to build sitemap, assets, and high-fidelity prototypes.

NTU-WKWSCI Module: ***Web Application Design***

Aug 2022 – Nov 2022

NTU Module Project: **CovCare Website** (**Team Leader** of 4 Members)

- Utilised 3 software programming languages (i.e., **HTML, CSS, JavaScript**) with **Bootstrap** framework to design, code and create website for a fictional medical company.
- Conducted SWOT analysis and user research (i.e. Surveys, User Personas, Customer Journey Map) to analyse current medical websites.
- Deployed UI/UX design tool, **Figma** to create high-fidelity prototypes.

NTU-IEM Design and Innovation Project: ***BusMeet Application*** (Team of 11 Member)

Aug 2021 – Nov 2021

- Employed **JavaScript** using **React** and **Expo** framework to develop mobile application for users to check bus information and share user information seamlessly.
- Used 3 design tools (i.e., **Figma, Miro, Procreate**) to design and establish user flows, assets, and prototypes.
- Utilised Amazon Web Services Amplify to set up backend infrastructure.

NTU-IEM Module: ***Introduction to Data Science and Artificial Intelligence***

Aug 2020 – Nov 2020

Module Project: ***Prediction of Fraudulent Job Posting*** (Team of 4 Members)

- Applied **Python Programming** to clean and visualize statistical data upon critical analysis of Kaggle Dataset - Fake Job Posting Description 2020.
- Deployed 5 Machine Learning Models (i.e., Linear Regression, Random Forest, Decision Tree, Neural Network) to evaluate trends, correlations, key variables identification for users to predict fraudulent data.
- Concluded that Neural Network was the ideal model with 72.3% prediction accuracy in fraudulent data detection.

INTERNSHIP EXPERIENCE

Innowave Tech Pte Ltd, *Project Engineer Intern*

Jan 2022 – May 2022

- Collaborated with Operations Team to perform site-specific engineering analysis related to smart factory products.
- Liaised with Data Science & Operations Teams to maintain project progress through daily meetings, brainstorming and strategic data analysis.
- Utilized Microsoft Excel to compile project analysis reports with cost estimations to mitigate risks.

Accenture, *Web UX Analyst Intern*

May 2021 – Aug 2021

- Analysed existing web and mobile applications upon surveying and interviewing for gap identification for further improvements.
- Collaborated and built rapport with different stakeholders to address technical challenges with solutions with team's constraints taken into consideration.
- Used UI/UX design tool, **Figma** to establish effective user flows, wireframes, and high-fidelity prototypes.
- Proposed innovative solutions for stakeholders' implementation to resolve issues on existing portal.

WORK EXPERIENCE

AGrader Learning Centre, Customer Service Officer

Jan 2021 – Sep 2021

- Handled customers' inquiries by being sensitive towards their needs with service and support provisioning.
- Used MS Excel to execute administration efficiently in centre operations.
- Honed interpersonal skill with active listening and empathy.

LEADERSHP / CO-CURRICULAR ACTIVITY

NTU Cultural Activities Club, Secretary (CenterStage 2021)

Aug 2020 – May 2021

- Elected as **Top 5 Main Committee Member** to be in-charge of decision making.
- Supervised and addressed disciplinary issues and administrative practices for 28 committee members.
- Oversaw committee welfare, prepared and disseminated meeting agendas and minutes-of meeting.
- Developed leadership, time-management, effective communication and organisational skills.
- Recognized the importance of strategic planning with team spirit to garner positive impacts through synergy.

SKILLS

- **Languages:** Proficient in English and Chinese (Mandarin)
- **Software Programming:** HTML, CSS, JavaScript, SQL, PHP, C Language, Java, Python, ARM Assembly Language, Object Oriented Programming
- **Software Applications:** Figma, Bootstrap, Procreate, Photoshop, MATLAB, Autodesk Inventor, Android Studio, Flutter, React, Microsoft Office 2022 (Excel, PowerPoint, Word, Outlook)
- **Portfolio:** <https://jchua082.github.io/Portfolio/>