

Lai Zi Qing

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EDUCATION

Nanyang Technological University (NTU)

Aug 2020 – Jul 2024

- **Bachelor of Engineering (Electrical and Electronic Engineering)**
- **Honours (Merit)**
- Specialisation: **Info-Communications Engineering (Computer Engineering)**
- Relevant Modules: (1) *From Computational Thinking to Programming* (2) *Data Structure and Algorithms* (3) *Introduction to Data Science and Artificial Intelligence* (4) *Web Application Design* (5) *Information Security* (6) *Artificial Intelligence and Data Mining* (7) *Computer Communications* (8) *Enterprise Network Design* (9) *Software Engineering*

Virtual Training and Learning & Development

- Relevant Modules (LinkedIn Learning): (1) *Learning Linux Command Line* (2) *Learning TypeScript* (3) *Learning the JavaScript Language*

Chong Hwa Independent High School, Kuala Lumpur

Jan 2014 – Dec 2019

- **High School Diploma (UEC - Unified Examination Certificate)**
- Graduated with full As in the UEC examinations.
- Actively participated in Harmonica Society, Humanities & Social Science Society.

SKILLS

- **Languages:** Proficient in English and Chinese (Mandarin) and Malay
- **Software Programming:** Python, C Language, TypeScript, HTML, CSS, Docker, MATLAB, Tkinter, Flutter
- **Software Applications:** Cisco Packet Tracer, LabVIEW, LT-Spice XVII, XAMPP, Microsoft Office (Excel, Word, PowerPoint, Outlook)
- **I.T. Tools / Libraries / Frameworks:** TensorFlow, Pandas, NumPy
- **A.I & Machine Learning:** Decision Tree, Random Forest Classification

INTERSHIP EXPERIENCE

Seagate Singapore International Headquarters Pte Ltd, Engineering Intern

Jan 2023 – Jul 2023

- Executed testing on storage devices, ensuring they met specifications and performance requirements.
- Analysed failures encountered during testing and validated bugs with Functional Teams.
- Utilised automation tools to resolve and improve manual testing tasks.

ACADEMIC PROJECTS / MODULE PROJECTS

NTU-EEE Final Year Project: **Mobile Application Development**

Aug 2023 – May 2024

- Utilized **Dart Programming** with framework “Flutter” to develop an Android mobile application.
- Integrated Firebase for secure data storage and user authentication.
- Conducted thorough testing on physical devices to ensure reliability and user usability.

NTU-EEE Module: **Enterprise Network Design**

Jan 2024 – May 2024

Module Project: **Network Design and Address Allocation** (Team of 2)

- Designed and assigned IP addresses across multiple subnets and supernets, minimizing address wastage and enhancing routing efficiency.
- Configured ACLs for security policies and tested using Cisco Packet Tracer.

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

Aug 2023 – Nov 2023

Module Project: **Web Portal for Online Purchase of Fashion Clothes** (Team of 2)

- Developed an online fashion retail web portal that allows customers to browse and purchase items online with **HTML, CSS, PHP, and SQL**.

NTU-EEE Design and Innovation Project: **Interactive Visual Object Segmentation by Deep Learning** (Team Treasurer of 7)

Aug 2022 – Nov 2022

- Designed a GUI using **Tkinter Programming** for visualization and demonstration purposes.
- Recognized as **Champion Team** in programme “Machine Learning and Data Analytics.”

- NTU-EEE Module: ***Introduction to EEE Design and Project*** Jan 2022 – Apr 2022
Module Project: ***Design Automatic Volume Controller for Audio Amplifier*** (Team of 2)
• Designed an Automatic Volume Controller using **LabVIEW** and **NIE-ELVIS** hardware.
- NTU-EEE Module: ***Introduction to Data Science and Artificial Intelligence*** Aug 2021 – Nov 2021
Module Project: ***Prediction of Road Accident*** (Team of 5 Members)
• Used **Python** and Machine Learning Models (Random Forest, Decision Tree) to predict accident severity.

WORK EXPERIENCE

- Nanyang Technological University, ***Student-Assistant*** Dec 2020 – Jul 2021
• Organized research paper submissions and checked copyright policies for compliance.
• Utilised Microsoft Excel to sort and filter data.

CO-CURRICULAR ACTIVITIES

- NTU Chinese Society, ***Secretary & Financial Controller (Mid-Autumn Festival)*** Sep 2020 – Sep 2021
• Coordinated administrative tasks, recorded minutes, and managed financial reports for events.
- NTU-AMCISA Club, ***Orientation Group Senior (Freshmen Orientation)*** Aug 2021 – Nov 2021
• Guided freshmen in adapting to university life and student affairs, organized online bonding activities.