

## **Lai Zi Qing**

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### **EDUCATION**

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**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*

### **INTERNSHIP EXPERIENCE**

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**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.
- Utilized automation tools to resolve and improve manual testing tasks.

### **ACADEMIC PROJECTS / MODULE PROJECTS**

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

Aug 2023 – May 2024

- Developed an Android mobile application using **Dart** and the Flutter framework to capture graphic or text information from forms.
- The extracted data is securely stored in Firebase for future retrieval.

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.
- Implemented Access Control Lists (ACLs) to enforce security policies and tested configurations 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 a web-based fashion retail portal with **HTML5, CSS3, JavaScript, PHP, and SQL**, enabling customers to browse and purchase items online.

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 the 'Machine Learning and Data Analytics' program.

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.

### **WORK EXPERIENCE**

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**Nanyang Technological University, Student Assistant**

Dec 2020 – Jul 2021

- Organized research paper submissions and checked copyright policies for compliance.
- Utilized Microsoft Excel to apply sorting and filtering techniques.

### **CO-CURRICULAR ACTIVITIES**

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**NTU Chinese Society, Secretary & Financial Controller** (Mid-Autumn Festival)

Sep 2020 – Sep 2021

- Coordinated administrative tasks, recorded minutes, and managed financial reports for events.

- Guided freshmen in adapting to university life and student affairs, organized online bonding activities.

## **SKILLS**

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- **Languages:** Proficient in English, Chinese and Malay
- **Software Programming:** HTML, CSS, Python, C, TypeScript, JavaScript
- **Frameworks & Libraries:** Flutter, Dart, React.js, Tailwind CSS, Firebase, Pandas, NumPy
- **Software Tools:** Cisco Packet Tracer, Docker, MATLAB, Tkinter, LabVIEW, LT-Spice XVII, XAMPP, Microsoft Office (Excel, Word, PowerPoint, Outlook)
- **AI & Machine Learning:** Decision Tree, Random Forest Classification