

# Marcus Yeo

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## EDUCATION

### Nanyang Technological University, Singapore

Aug 2021 – Dec 2025

*B.Eng.Sc in Computer Science & M.Sc. in Technology Management, Renaissance Engineering Program*

- Expected Honours (Distinction), Current CGPA: 4.83/5.00.
- Awarded the Renaissance Engineering Scholarship
- Relevant Coursework:** Distinctions in Data Structures and Algorithms, Object-Oriented Programming, Data Science and Artificial Intelligence, Algorithm Design and Analysis, Databases and Operating Systems.

### University of California, Berkeley

Aug 2023 – May 2024

*B.Eng.Sc in Computer Science*

- Relevant Coursework:** Distinctions in Computer Security, Algorithms and Interactable Problems, Computer Graphics and Financial Engineering.

## SKILLS

- Technical Skills: SQL, Python, C/C++, C#, ReactJS, HTML, CSS, JavaScript, Java, GoLang, Git
- Libraries: OpenAI, Rasa, scikit-learn, pandas, NumPy, matplotlib, seaborn, spacy
- Languages: Proficient in English and Mandarin

## PROFESSIONAL EXPERIENCE

### Defence Science Organization Singapore

May 2024 – Aug 2024

#### Software Engineer (Intern)

*Technologies used: TypeScript, JavaScript, Vite, CSS, Flask, Python, SQLite, SQL, Microsoft Active Directory*

- Designed and developed a Ticketing Approval web-app utilizing a **ReactJS TypeScript Vite** Frontend, facilitated by a Flask Backend interfacing with a local **SQLite** database using Agile frameworks.
- Developed **RESTful APIs** in **Flask** to handle Frontend requests and ensure smooth communication between Frontend and Backend.
- Implemented Single Sign-On capabilities using **Microsoft Active Directory**.
- Led entire Software Development Life Cycle, including test and system integration, resulting in department-wide adoption and significant time savings over previous manual methods.

### Defence Science Organization Singapore

May 2023 – Aug 2023

#### Software Engineer (Intern)

*Technologies used: C#, Python, SQLite, Rasa Framework*

- Designed and developed a chatbot web-app driven by the **Rasa NLU** framework and interacts with a local **SQLite** database to streamline user queries and deliver accurate responses.
- Spearheaded development of dynamic graphic and table display formats in **C#** to enhance user experience and convenience.
- Successfully utilized **Python** to train and populate NLU corpus and subsequently deployed Rasa NLU APIs for Front-End integration.
- Performed in-depth market research to identify requirements and use-cases for the Rasa Chatbot.

### Maybank Singapore

Jun 2022 – Sep 2022

#### Data Process Automation Engineer (Intern)

*Technologies used: Python, pandas*

- Developed **Python** programs to streamline and automate department processes and book-keeping tasks.
- Spearheaded utilization of **pandas** library to analyse, compute and transfer data for the department's routine workflows, greatly improving efficiency over previous methods, which involved manual copying and transferring of data.

## PROJECTS

### REHome

Aug 2022 – Dec 2022

*Technologies used: ReactJS, HTML, CSS, JavaScript*

- Developed a **ReactJS** Web-App leveraging URA APIs to empower property seekers in Singapore, facilitating efficient exploration of last sold HDB Flat prices by location and room size.
- Led a team of 4 in Front-End design and development, utilizing **ReactJS, HTML, CSS** and **JavaScript** programming languages.
- Oversaw integration testing to ensure adherence to all functional and non-functional requirements.