Marcus Yeo

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EDUCATION

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.

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.

SKILLS

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

PROFESSIONAL EXPERIENCE

DSO National Laboratories 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 **React.JS 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 the entire Software Development Life Cycle, including testing and system integration, resulting in department-wide adoption and significant time savings over previous manual methods.

DSO National Laboratories Singapore   May 2023 – Aug 2023
Software Engineer (Intern)
Technologies used: C#, Python, SQLite, Rasa Framework
- Developed a chatbot web-app using the **Rasa NLU** framework to interact with an **SQLite** database, streamlining user queries and delivering accurate responses.
- Enhanced user experience by developing dynamic graphic and table display formats in **C#**.
- Trained and populated NLU corpus using **Python** and deployed Rasa NLU APIs for Frontend integration.

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 manual methods.

PROJECTS

REHome   Aug 2022 – Dec 2022
Technologies used: ReactJS, HTML, CSS, JavaScript
- Developed a **React.JS** 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.