MARCELLINUS JERRICHO

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Available from 08/08/2022 – 19/12/2022

EDUCATION

Yale-NUS College | CGPA: 4.75/5 — **Singapore**
| 2020 – 2024
- Majoring in Mathematical, Computational and Statistical Sciences (Computer Science track).
- Recipient of the ASEAN Scholarship, a merit-based scholarship awarded for four years.
- **Relevant Modules and courses:** Introductory Data Structure and Algorithm, Functional Programming and Proving, Programming System Interface & Extras, Linear Algebra, AWS Cloud Practitioner Essentials

SKILLS

OCaml, Python, C, C++, R, Git | HTML, CSS, JavaScript, TypeScript, SQL, React, Firebase, AWS Cloud Services | NumPy, Matplotlib, Scikit-Learn, TensorFlow | WordPress, Figma, LaTeX | Adobe tools |

PROJECTS

Yale-NUS College Dining Menu Web Scraper and Bot (Winning idea for YNC Makerthon) | Feb 2022
- Implemented a web scraper that extracts meals and nutrition content from dining menu website (skipping ~15 clicks).
- Developed a Telegram bot that broadcasts daily menu updates to the channel of over 450 subscribers.

Instagram-based Citizen Science Tool | Jan – June 2022
- Accelerated wild life observational data collection process by creating a Python customisable Instagram posts scraper.
- Engineered a program that automate metadata extraction and file upload to cloud storage, saving 50+ work hours.

Birdy: a text messaging app | Dec 2021
- Implemented a text messaging app with Google account authentication login using ReactJS and Firestore database.

Mjerricho.com | Dec 2021
- Built and deployed a personal resume website with ReactJS and Bootstrap framework hosted on AWS Amplify.

WORK EXPERIENCE

Front-end Software Engineer Intern at STACS — **Singapore**
| May 2022 – Present
- Enhanced the main product's UI/UX using AntD library and implemented using ReactJS
- Designed, modelled, and implemented the multi-client login landing page using Figma and AWS Cognito.
- Evaluated performance using Lighthouse, and improved efficiency by refactoring code and cleaning up hooks.

Full stack Software Engineer intern at StockPeek — **Singapore**
| March – May 2022
- Constructed front-end components using React Native and developed push notifications.
- Implemented back-end functions on AWS Lambda and interfaced with the database using SQL on AWS RDS.
- Engineered an interactive stock portfolio value comparative graph for users' analytics purposes.

Research Assistant at Yale -NUS College — **Singapore**

Investigation on Perceptual Learning | Oct 2021 – Feb 2022
- Provided JavaScript technical assistance for an Angular online experimental tool hosted on Heroku (200+ participants).
- Developed and troubleshoot offline experiment tool built with PsychoPy to increase study's resilience.

Investigation on dataflow system in Autoware, an open source autonomous driving software | May - Nov 2021
- Evaluated how Autoware uses Robotics Operating Software (ROS) to structure and manage its dataflow.
- Programmed shell scripts to dynamically automate real-time information extraction from Autoware for benchmarking.

Research on Ethnic Politics in Southeast Asia | Nov 2020 - Aug 2021
- Applied text mining to unstructured debates data to generate word cloud and statistical information for analysis.
- Utilised R web scraping tools to gather politicians information from official websites, saving 25+ work hours.

Machine-Learning Investigation of the Geometry of Molecular Arrangement in Liquid Water | Nov 2020 - Feb 2021
- Developed a Python unsupervised learning algorithm to identify and evaluate clusters of water's molecular properties.
- Accelerated data analysation and visualisation process using Scikit-Learn and Seaborn libraries.

LEADERSHIP

President of the Yale-NUS College Visual Art Society (70 members) | Aug 2021 – May 2022
- Coordinate and execute art events for student body of over 1000 people.

Captain of the Yale-NUS College Football Team (70 members) | Aug 2021 – May 2022
- Revitalise team spirit by organising trainings and competitions, increasing training participation rate by roughly 50%.

ADDITIONAL INFORMATION

- **Languages:** English (proficient), Bahasa Indonesia (native), Malay (proficient).
- **Interests:** Software Engineering, Web Development, Visual Art, Graphic Design, Machine Learning, Football.