

## MARCELLINUS JERRICHO

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Available from 09/05/2022 – 29/07/2022

### EDUCATION

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#### YALE-NUS COLLEGE

Singapore

- Recipient of the ASEAN Scholarship, a merit-based scholarship awarded for four years. **2024 (expected)**
- Intending to major in Mathematical, Computational and Statistical Sciences (Computer Science track).

#### NANYANG JC

Singapore

- Attained 9 distinctions for GCE A-Level, including additional H3 Art and H3 Physics. **2018-2019**
- Awarded the Student of the Year and Valedictorian for College Day.
- Vice-Captain of the Football Team.

#### ST JOSEPH'S INSTITUTION

Singapore

- Attained 3 points for GCE O-Level. **2016-2017**
- Recipient of a four years merit-based full scholarship to complete secondary education.

### EXPERIENCE

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#### PROJECT

Singapore

##### Birdy: a text messaging app

Dec 2021

An implementation of a text messaging app using ReactJS and Firestore database.

#### RESEARCH ASSISTANT WORK

Singapore

##### Investigation on Perceptual Learning

Oct 2021 – Present

- Provide JavaScript technical assistance and maintenance for the online experimental tool.
- Implemented an offline Perceptual Learning experiment using PsychoPy to increase the resilience of the study.

##### Investigation on dataflow system in Autoware, an open source autonomous driving software

May - Nov 2021

- Analyse how Autoware uses ROS (Robotics Operating Software) to structure its dataflow.
- Write scripts to dynamically automate the extraction of information from Autoware.
- Develop tools in Python to visualise the dataflow of the numerous Topics in Autoware.

##### Research on Ethnic Politics in Southeast Asia

Nov 2020 – Aug 2021

- Apply text mining to debates data to generate word cloud and statistical analysis.
- Apply web scraping to gather politicians information
- Apply Topic Modelling using NLP in R to analyse political debate.

##### Machine-Learning Investigation of the Geometry of Molecular Arrangement in Liquid Water

Nov 2020 – Feb 2021

- Produced a Python Machine Learning code that would identify clusters of states of water based on over 10 molecular properties (parameters), then evaluate the significance of the clusters.
- Employed Scikit-Learn, Pandas, Seaborn and Matplotlib library to process and visualise data.

#### SKITE SOCIAL (@skite.social)

Singapore

##### Graphic design marketing intern

Jun – Aug 2020

- Planned and generated advertising illustrations, short videos, and captions that will be uploaded as posts and stories at Instagram and Facebook of @thecare (an online grocery store start up).
- Formulated the company's image, vision and mission by producing the brand guidelines.

### ADDITIONAL INFORMATION

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- **Languages:** English (proficient), Bahasa Indonesia (native), Bahasa Melayu (proficient).
- **Skills:** OCaml, Python, C++, R, Git; HTML, CSS, Sass, JavaScript, SQL, React; Scikit-Learn, TensorFlow, PsychoPy; Adobe Photoshop, Illustrator, Premiere Pro; Final Cut Pro; LaTeX.
- **Relevant Modules:** Functional Programming and Proving using Coq and OCaml, using Bootstrap 4 for Front-End Web UI course by The Hong Kong University of Science and Technology.
- **Leadership:** Captain of Yale-NUS College Football Team (of 40 members) (2021), President of Yale-NUS College Visual Art Society (of 50 members) (2021).
- **Interests:** Software engineering, web development, machine learning, visual art, graphic design, football.