

## MARCELLINUS JERRICHO

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Available from 09/05/2022 – 29/7/2022

## EDUCATION

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### YALE-NUS COLLEGE

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

### NANYANG JC

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

### ST JOSEPH'S INSTITUTION

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

## EXPERIENCE

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### RESEARCH ASSISTANT WORK

#### Investigation on perceptual learning

- Provide JavaScript technical assistance and maintenance for the online experimental tool. **Singapore Oct 2021 – Present**
- 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.

### YALE-NUS COLLEGE DEVELOPMENT OFFICE

#### Videographer

**Singapore**

**Sept 2020 - Present**

- Directed staff, faculty and students to act in videos for school campaigns, such as *Senior Class Giving* campaign.
- Recorded both dynamic and interview-style videos, then edited and enhanced the videos using Final Cut Pro.

### SKITE SOCIAL (@skite.social)

#### Graphic design marketing intern

**Singapore**

**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:** LaTeX; OCaml, Python, CSS, Sass, HTML, C++, JavaScript, R, Git, SQL; React, Scikit-Learn, TensorFlow; Adobe Photoshop, Illustrator, Premiere Pro; Final Cut Pro.
- **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.