

# Vanessa Lai

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## EDUCATION

### National University of Singapore

Aug 2023 - May 2027

Bachelor of Science in Business Analytics (Honours) with Minor in Interactive Media Development

**Relevant Courses:** Data Structures and Algorithms, Application Systems Development for Business Analytics, Object-Oriented Programming, User Experience Design, Data Management and Visualisation

## TECHNICAL SKILLS

**Languages:** Python, SQL, Java, R, JavaScript, TypeScript, HTML, CSS

**Frameworks:** ReactJS, NextJS, ExpressJS, VueJS, TailwindCSS, Git, Socket.io, Pandas, TensorFlow

**Relevant Tools:** Figma, Tableau, PowerBI, Confluence

**AGILE Methodologies:** SCRUM

## CO-CURRICULAR ACTIVITIES

### NUS Student Mentorship Committee (SMC)

Aug 2024 - Present

#### Technology Team (Global Ready Certificate - Project Head)

- Spearheaded and led a team to create a front-end form using ReactJS and a backend content and plagiarism checker using OpenAI API and TensorFlow
- Adopted a pipeline to automate sending out certificates via email

#### Project Team

- Assisted in the conceptualisation of projects for the clubHandled the operations and logistical planning of the events

### Advisory Singapore

Aug 2024 - Present

#### Web Developer (Data Team)

- Utilised frameworks such as Streamlit, Pandas and Tableau as well as SQL to filter and processdata for them Mentorship Team
- Participated in biweekly sprints with the team to discuss and work through errors together

### TMJC Health and Fitness Club

May 2021 - May 2022

#### Physical Training In-Charge

- Developed and facilitated weekly training programs for club members
- Planned and headed a school-wide "Walk for Rice" event in collaboration with the Cerebral Palsy Alliance Singapore
- Led a publicity event and Instagram campaign for a "Healthy April"event in school, giving weekly tips on fitness and health

## COMPETITIONS

### NUS Product Club, Product Management Exposure (PME), 2nd Runner Up

- Gained knowledge of the fundamental skills, including interviewing and research, of Product Management through talks by industry professionals and personal trial
- Collaborated with a team to present a case study on a event reminders function on Telegram, TeleCale, for an internal product competition

## PROJECTS

### MechHub - E-Commerce Web App

- Full-Stack e-commerce web application using ReactJS, TensorFlow and Firebase developed for NUS Orbital Apollo (Advanced) level
- Implemented CI/CD pipelines to automate deployments with FireBase
- Developed unit testing with Jest and React Testing Library and conducted user testing

### GetItDone - Task Manager

- Developed a Full-Stack web application using MongoDB, ExpressJS, ReactJS and NodeJS
- Used to Telegraf to create a Telegram bot that sends reminders to users and allows the update of tasks

### Ultimate Tic Tac Toe

- Developed an online multiplayer ultimate tic tac toe game using Socket.io and ExpressJS

**Nationality:** Singaporean

**Languages:** English (native proficiency), Mandrin (limited working proficiency)

Looking for a Part-Time Internship from Jan - June 2025