Cervon Wong

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Year 5 student at NUS High School of Math and Science **Majors**: Math, Biology, Chemistry, Physics with Honours in

Computer Engineering CAP: 4.7 / 5.0 (2021 Sem 2)

Projects

Web app that enables trainees with mild intellectual disability to learn work skills independently

Jul 2021 - Jan 2022

- Worked directly with instructors to learn about issues that trainees and instructors face.
- Ideated with two teammates to ensure product features accurately solve trainees' issues.
- Designed accessibility features to make web app easier and more intuitive to use.
 - I chose to use images and included buttons to listen to UI text to aid illiterate trainees.
- Architected back-end services model and coded front-end app using Flutter from scratch.
- Distributed app onto trainees' iPads.
- Hosted app live on the web for public demo (https://mint-def9e.web.app/#demo).

Machine learning model that monitors foreign ships near Singapore

Jun 2021

Optimised convolutional neural network layers to improve recognition accuracy.

Algorithmic flashcard scheduling app for learning retention

Jan 2019 - Jun 2021

- · Connected Android app to SQL database to keep track of users' learning data.
- Implemented AI that processes users' learning data to optimise learning schedule.

Awards & Achievements

NUS High Commendation Award for Service 2022

Mar 2022

FINALIST - Tech for Good Innovation Challenge 2021

Nov 2021

- Entered the finals of a national university-level six-month engineering contest.
- Teamed up with two students, proposed an app solution to tackle a problem statement.
- Implemented and presented minimum viable product of the app at the festival.

CHAMPION - YDSP Science and Tech Camp (Al using Satellite Images)

Jun 2021

- Coded and presented a machine learning model to bolster national security in a team.
- Represented NUS High School and emerged champion against 13 other IP schools.

Best in Computer Studies - NUS High School Subject Book Prize

Mar 2019

Technical Skills

Front-end/Back-end: Flutter, Java, HTML/CSS/JS/TS, Firebase Cloud Firestore, SQL

Machine Learning: Python, NumPy, Pandas, TensorFlow

UI/UX Design: Figma, Mobile design, Web design, Accessibility, Responsiveness

Tools & Environments: Git and GitHub, VSCode, IntelliJ, Jupyter

Courses & Workshops

AWS DeepRacer League Workshop

Oct 2021

- · Learnt reinforcement learning techniques.
- Trained a reinforcement learning model to drive a 1/18th scale autonomous race car.

BrainHack 2021 XRperience Hackathon

Jun 2021

Learnt how to design and develop virtual reality experiences.

Introduction to Flutter Development Using Dart Course

Nov 2020

• Learnt how to code cross-platform apps for Android, iOS, Web, Windows, etc.