Cervon Wong

✉ hello@cervonwong.com
🌐 cervonwong.com
in linkedin.com/in/cervonwong/

Year 5 student at NUS High School of Math and Science
Majors: Math, Biology, Chemistry, Physics
Honours: 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 (AI 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.