Cervon Wong

NUS High graduate pursuing Computer Science and Engineering

Mail: hello@cervonwong.com | **Web:** cervonwong.com | **Full profile:** linkedin.com/in/cervonwong

Education

Majors in Math, Phys, Bio, Chem w/ Computer Engineering Honours @ NUS High School   *(2018 - 2023)*
↪ Graduated with High Distinction and a 4.9/5 CAP.

Computer Engineering (CS1010C/CG1111A/CG2111A) @ National University of Singapore   *(2022 - 2023)*
↪ Designed and built robotic vehicle enabling odometry, laser imaging, serial wireless communications, and remote controlling using ROS, Arduino, Raspberry Pi, and C++.

Experience

Robotics Engineer Intern @ Fabrica AI — Skills: Linux, C++, ROS, AI   *(Nov 2023 – Present)*
↪ Tested and functionalised autonomous robot in a fast-paced timeline.

Web Developer & Designer for Celebrate with Cake — Skills: Web dev, UX   *(Oct 2023 – Present)*
↪ Worked closely with founder to craft new web presence after consolidating their social posts and blogs.
↪ Coded responsive website in Vue from scratch, configured new domain and email, and deployed it.

Co-Founder & Tech Lead of Singapore Biology League   *(Aug 2023 – Present)*
↪ Leading the creation of a new platform to host 400+ students solving 50+ puzzles at the same time.

Workshop Organiser & Presenter @ BuildingBlocs — Skills: Web dev, UX   *(Dec 2022 – Nov 2023)*
↪ Co-led workshops on web dev and UX in annual CS conference to audience of 100+ students.

Research Intern @ A*STAR – Skills: Statistical data analytics   *(Mar – Dec 2022)*
↪ Conducted comprehensive analysis using R and uncovered novel findings from metagenome of 373 skin microbes associated with atopic dermatitis from skin samples of 80+ Singaporean children.

Software Engineering Intern @ DSTA — Skills: Robotics, Simulation, Linux   *(May – Jun 2022)*
↪ Led the integration of a drone trajectory planning and optimisation frameworks into internal simulation engines by analysing data flow and interfaces.

Selected Projects

Mobile app w/ household utility analysis and gamification for sustainable living 🔗 **Open App**   *(Apr – Oct 2023)*
↪ Ideated, designed, and built cross-platform app from the ground up for a 6-month hackathon.
↪ Researched in a team, tackling key problems in the utility sector to contribute to the SG Green Plan.
↪ User-tested app with peers to improve its user experience.

Web app for intellectually disabled chefs to learn work skills independently 🔗 **Open App**   *(Jul 2021 – Jan 2022)*
↪ Architected back-end services and coded front-end app using Flutter from scratch.
↪ Innovated accessibility features (e.g. TTS) to enhance ease of use and intuitiveness of the web app.
↪ Deployed app to trainees and hosted a public demo at a national university-level 6-month hackathon.

Machine learning model that monitors foreign ships near Singapore   *(Jun 2021)*
↪ Optimised convolutional neural network layers to improve recognition accuracy by 50%.

Awards & Achievements

AP Scholars Award with Distinction (All 5s in Calc AB/BC, Stats, Physics 1, Chem, Bio)   *(Jul 2023)*
GOLD (Top 7) – Singapore Linguistics Olympiad   *(May 2023)*
GOLD (Top 5) – Singapore Biology Olympiad   *(Jan 2023)*
CHAMPION - SUTD Research Hackathon (Julia numerical analysis hackathon)   *(Mar 2023)*
SILVER – Singapore Science and Engineering Fair (For A*STAR Research Project)   *(Mar 2023)*
FINALIST - Tech for Good Innovation Challenge 2021   *(Nov 2021)*
CHAMPION - YDSP Science and Tech Camp (AI using Satellite Images)   *(Jun 2021)*
BEST in Computer Studies - NUS High School Subject Book Prize   *(Mar 2019)*