

Cervon Wong

I'm an NUS High graduate pursuing Computer Science and Engineering

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Experience

Robotics Engineer Intern Skills: Linux, C++, ROS, AI
Fabrica AI (Nov 2023 – Present)

- Worked in cross-functional teams to proactively identify and resolve unit/integration test failures (logged 15+ issues) in C++ in fast-paced timeline to ensure smooth run for investors.
- In charge of QC module (top priority task). Upgraded unit to fix blurry camera feed, misaligned view and laser, then configured software and USB management to allow multi-camera dashboard.

Web Developer & Designer (Freelance) Skills: Web dev, UX
Celebrate with Cake (Oct 2023 – Present)

- Worked closely with founder to establish new web presence by consolidating their social posts and blogs and designing new site.
- Coded responsive website from scratch, configured new domain and email, and deployed it.

Co-Founder & Tech Lead Skills: Firebase, Web architecture
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 Skills: Web dev, UX
BuildingBlocs (Dec 2022 – Nov 2023)

- Co-led workshops on web dev and UX in annual CS conference to audience of 100+ students.

Research Intern Skills: Statistical data analytics
A*STAR (Mar – Dec 2022)

- Conducted comprehensive analysis using R to uncover novel findings from metagenome of 373 skin microbes associated with atopic dermatitis from skin samples of 80+ S'porean children.

Software Engineering Intern Skills: Robotics, Simulation, Linux
DSTA (May – Jun 2022)

- Analyse data flow and interfaces to integrate drone trajectory planning and optimisation frameworks into internal simulation.

Selected Projects

“EcoBuddy” – Mobile app with household utility analysis and gamification for sustainable living (Apr – Oct 2023)

- Ideated, designed, and built cross-platform app from the ground up for a year-long hackathon.
- Researched, tackled key problems in the SG Green Plan.
- User-tested app with peers to improve its user experience.



“Mint” – Web app for intellectually disabled chefs to learn work skills independently (Jul 2021 – Jan 2022)

- Architected full-stack app using Flutter from scratch.
- Innovated accessibility features (e.g. TTS) to enhance ease of use and intuitiveness of the web app.
- Deployed app, hosted public demo at university-level hackathon.



Education

NUS High School (2018 – 2023)
Majors in Math, Physics, Bio, Chem

- Graduated with High Distinction and a 4.9 / 5 CAP.

National University of Singapore
Computer Engineering (2022 – 2023)

- Designed and built robot w/ odometry, laser imaging, serial wireless communications, and remote controlling using ROS, Arduino, Raspberry Pi, & C++.

Achievements

- 🏆 **1st Place Team** for Sembcorp Green Wave Contest 2023 by pitching 1-year app project EcoBuddy to 10+ panellists.
- 🏆 **Gold** in the Singapore Linguistics Olympiad 2023.
- 🏆 **Gold** in the Singapore Biology Olympiad 2022, Top 5 national, IBO team reserve.
- 🏆 **Champion Team** in SUTD Research Hackathon by presenting cellular automata numerical analysis in Julia in March 2023.
- 🏆 **Silver** for Singapore Science and Engineering Fair 2023 for report and presentation of 1-year statistics research.
- 🏆 **Champion Team** for YDSP Science and Tech Camp 2021 AI hackathon by creating CNN to categorise satellite feed.

Skills Summary

- Software**
- C, C++, Java, Python, Firebase, SQL
 - JS/TS, Next.js, Nuxt, Flutter, PWA, TDD

- AI/ML & Statistics**
- Python, Numpy, Pandas, Seaborn
 - R, Julia

- Robotics**
- ROS, Arduino, Linux, Raspberry Pi

- Tools & Others**
- Git, Docker, DNS, CAD, Figma