

Cervon Wong

Incoming NUS Scholar in Computer Science | NUS High Sch '23 | Robotics, Cyber

• Email: hello@cervonwong.com • LinkedIn: [linkedin.com/in/cervonwong](https://www.linkedin.com/in/cervonwong)

My portfolio
(cervonwong.com)



EDUCATION

National University of Singapore (NUS)

Information Security (NUS-MINDEF Cyber NSF Work-Learn Scheme)

2025 – Present

• Reading courses: Data Structures & Algorithms, Calculus III, Computer Security. (Spring '25)

Computer Engineering (2 Semesters | Non-graduating program)

2022 – 2023

• Grade: Distinction; Built robot w/ odometry, LIDAR imaging, serial wireless comms, w/ ROS, Arduino, RPi, C++.

NUS High School

2018 – 2023

Majors in Math, Physics, Bio, Chem | Honours in Computer Engineering

• GPA/CAP: **4.9/5** • 6 APs (Calc. AB/BC, Stats, Phys. 1, Chem., Bio.): **5**.

EXPERIENCE

Co-Founder & Lead Developer

Singapore Biology League

Aug. 2023 – Present

Skills: Next.js, GCP, Cloudflare, UX

- Built, designed, and deployed full-stack web app for real-time contest platform for 1.2k+ participants, using Next.js, Cloudflare, and GCP suite (Firestore, Storage, Functions, Logging, Security).
- Optimised backend latency (~80ms) and cloud spend (<\$20); No failures w/ 4M+ user transactions.
- Configured SMTP email servers with custom domain; ensured 100% DMARC pass for 10k+ outreach/auth emails.
- Recruited and led team of 5 student developers to build custom platforms; Received MOE and SIBiol support.



Robotics Engineer Intern

Fabrica AI

Nov. 2023 – Dec. 2023

Skills: Linux, C++, ROS, AI

- Resolved unit/integration test failures (logged 15+ issues) for robot motors and sensors in C++ in fast-paced timeline to ensure smooth run for investors.
- Led the upgrade of QC camera module unit (top priority task) by fixing misaligned, blurry camera output caused by 3D printed parts in CAD. Redid USB management in robot and codebase to allow multi-camera view in dashboard.

Web Developer & Designer (Freelance)

Oct. 2023 – Feb. 2024

- Revamped cake business by developing new responsive website with Next.js from scratch within 2 months.
- Gained 1.5k+/mo page views, ran Google Ads to gain ~\$10k monthly conversions and 10× WhatsApp conversions.

Research Intern

A*STAR (Agency for Science, Technology and Research)

Mar. 2022 – Dec. 2022

Skills: Data analysis, R, Python

- Conducted exploratory data analysis in R to uncover 373 skin microbial species associated with eczema from skin samples of 80+ S'porean children; recommended prognosis and treatment that could aid 20.6% of children locally.
- Won Silver at S'pore Science & Engineering Fair + Top S'pore Team (Bio. category) at int'l S.T.Yau research contest.

Software Engineering Intern

DSTA (Defence Science and Technology Agency)

May 2022 – Jun. 2022

Skills: ROS, WSL, Linux

- Analysed data flow and interfaces to integrate new drone path planning/optimisation algorithms into simulation.

PROJECTS

“EcoBuddy”

= Mobile app w/ household utility analysis & gamification for sustainable living

Apr. 2023 – Oct. 2023

Skills: Flutter, Android, PWA

- Ideated, built, and user-tested cross-platform app from ground up for year-long 3-round judging contest.
- Pitched to 10+ board members to win 1st place in national innovation contest (Sembcorp Green Wave).



“Mint”

= Web app for intellectually disabled chefs to learn work skills independently.

Apr. 2023 – Oct. 2023

Skills: Flutter, A11y

- Innovated a11y features (e.g. TTS) in Flutter to enhance ease of use for intellectually disabled users.
- Integrated and deployed app with beneficiary; hosted public demo at university-level hackathon.



SKILLS & OTHER ACTIVITIES

Skills Summary: • C/++, Java, Python, SQL • Next.js, Vue.js, Flutter • GCP, Cloudflare • Pandas, R, Julia • Git, Docker, Linux • ROS, Arduino • UX, Figma

Olympiads

Linguistics: S'pore Ling. Olympiad ('25, '24, '23: 🏆 Gold) • Asia Pacific Ling. Olympiad ('24: Top 12% APAC)

Biology: S'pore Bio. Olympiad ('22: 🏆 Gold, IBO Reserve) • British Bio. Olympiad ('22: 🏆 Gold)