

# Cervon Wong

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

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

My portfolio  
([cervonwong.com](https://cervonwong.com))



## EDUCATION

### National University of Singapore (NUS)

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

2025 – Present

• Current coursework: Data Structures & Algorithms (C++), Calculus III, Computer Security. (Spring '25)

Computer Engineering (2 Semesters | Advanced placement)

2022 – 2023

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

### NUS High School of Math and Science

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

Aug. 2023 – Present

Singapore Biology League • Skills: Next.js, Google Cloud, Firebase, 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

Nov. 2023 – Dec. 2023

Fabrica AI • Skills: Linux, C++, ROS, Docker, 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) • Skills: Next.js, SEO, Google Ads, Communication

Oct. 2023 – Feb. 2024

- Revamped cake business online presence with responsive Next.js website with GA4 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

Mar. 2022 – Dec. 2022

A\*STAR (Agency for Science, Technology and Research) • Skills: Data analysis, R, Python

- Conducted multivariate data analysis in R and Python to uncover 373 skin microbes associated with eczema from skin samples of 80+ S'porean children; published 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

May 2022 – Jun. 2022

DSTA (Defence Science and Technology Agency) • Skills: ROS, WSL, Linux

- Reverse-engineered interfaces in C++ repo to integrate novel drone path planning algorithms into ROS simulation.

## PROJECTS

### Mobile app analysing household utility w/ gamification for sustainable living • Skills: Flutter

Apr. 2023 – Oct. 2023

- 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 1<sup>st</sup> place in national innovation contest (Sembcorp Green Wave).



### Web app for intellectually disabled chefs to learn work skills independently • Skills: PWA, A11y

Jul. 2021 – Jan. 2022

- 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 • Google Cloud (GCP), Cloudflare • Pandas, R, Julia • Git, Docker, Linux • ROS, Arduino • UX, Figma

### Olympiads:

- **Linguistics:** S'pore Ling. Oly. ('23, '24: 🥇 Gold | '25: 🥇 Top Gold) • Asia Pacific Ling. Oly. ('24: Top 12%)
- **Biology:** S'pore Bio. Olympiad ('22: 🥇 Top 5 Gold) • British Bio. Olympiad ('22: 🥇 Gold)