

Ng Ho Chi

nghochi123@gmail.com | <https://github.com/nghochi123> | <https://nghochi.xyz/>

Education

A LEVELS [2017-2018] | HWA CHONG INSTITUTION

- Hwa Chong Diploma with Distinction
- Part of Hwa Chong's Science and Math Talent Programme
- 88.75 RP

BACHELOR OF ENGINEERING (COMPUTER SCIENCE) [2021-2025] (EXPECTED) | NTU

- CN Yang Scholarship – only offered to 31 students in cohort
- Current CGPA: 4.86

Work Experience

DATA ANALYST | CSOG MOH [DEC 2020-APR 2021]

- Consolidate and process information from relevant sources into figures and charts for regular press release.
- Write and debug code to improve data processing.
- Implemented new workflow to improve dissemination of information between MOH teams.
- Assisted in the revamp of an old process used to consolidate information from hospitals.

FULL STACK DEVELOPER | LABCI ASIA PTE. LTD [SEPT 2021-PRESENT]

- Develop UIs to demo features for React stock applications.
- Wrote algorithms to convert financial data into more useful information.
- Design and maintain MongoDB databases to store processed data, as well as created APIs for accessing stored data.

Co-Curricular Activities

ROBOTICS AND INFOCOMM CLUB [2017-2018]

- Robotics division.
- Participated in robotics competitions such as RoboCup and National Robotics Competition. (NRC)
- Participated in some Infocomm division activities such as Hackathons and CTFs.

MACHINE LEARNING AND DATA ANALYTICS CLUB [2021-PRESENT]

- Carry out workshops on machine-learning or artificial intelligence related topics for NTU students and the general public.

Achievements

ROBOCUP INTERNATIONAL RESCUE LINE – SINGAPORE OPEN CHAMPIONS [2018]

- Built a Lego line tracking robot with ball picking and sorting capabilities which won Singapore Open.
- Restructured bot with Arduino boards, allowing more design flexibility for Robocup International.
- Responsible for programming, circuitry design and soldering.

HTX INVESTIGATORS CHALLENGE – 4TH PLACE [2021]

- Capture the Flag competition where we try to find vulnerabilities and exploits in web apps, scripts, networks and many more.
- Mostly focused on Reverse Engineering, Binary Exploitation and Web exploits.

Personal Projects

ALGORITHM VISUALISER | [HTTPS://VIS.NGHOCHLXYZ/]

- Web application built with React (create-react-app) to allow the visualization of simple sorting algorithms and a pathfinding algorithm.
- Deployed onto Netlify, and built using the Material-UI library.

DATABASE VISUALISER | [HTTPS://DBVIS.VERCEL.APP/]

- Web application built with React using the Next.JS framework to help with the visualization of relational databases (such as MySQL and PostgreSQL).
- Has basic features necessary and documentation to help with the use of the web app.
- Built with the Material-UI library, and deployed onto Vercel.

Tech Stack

- Languages: JavaScript, Python, C, Stata
- Frameworks: Node.js, React, Vue, Flutter
- Databases: MongoDB, MySQL, PostgreSQL
- ML Libraries: OpenCV, TensorFlow
- Hardware: Arduino, Raspberry Pi
- Others: Git, Microsoft Office, Linux