

Ng Ho Chi

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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 [2021-2025] (EXPECTED) | NTU

- Studying Computer Science under the CN Yang Scholarship

Work Experience

DATA ANALYST INTERN | CSOG MOH [2020-2021]

- 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.

Co-Curricular Activities

ROBOTICS AND INFOCOMM CLUB [2017-2018]

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

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.

BRAINHACK CYBER DEFENCE DISCOVERY CAMP – TOP 20 UNIVERSITY CATEGORY [2021]

- Capture the Flag competition where we try to find vulnerabilities and exploits in web apps, scripts as well as Linux and Windows machines.
- Mostly focused on Reverse Engineering, Windows and Linux exploits.

Personal Projects

ALGORITHM VISUALISER | [[HTTPS://VIS.NGHOCHI.XYZ/](https://vis.nghochi.xyz/)]

- 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/](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