nghochi123@gmail.com
+65 8101 9753

# Ng Ho Chi
**nghochi.xyz**

GitHub: nghochi123
LinkedIn: Ng Ho Chi

## EDUCATION

| Singapore | Nanyang Technological University | Aug 2021 - Expected May 2025 |
|---|---|---|

- BE in Computer Science
- Under the CN Yang Scholarship, awarded to only 31 recipients within the batch

Current CGPA: 4.91/5.00
Dean's List for AY21/22

## EMPLOYMENT

| Full Stack Software Engineer | LabCI Limited | Sept 2021 – Present |
|---|---|---|

- Implemented algorithms for technical analysis of financial datasets in **Python** to be executed periodically, storing the resultant data in a **MongoDB** database for use by other projects.
- Designed and maintained an **Express** API that integrates data sources from multiple projects, and created mobile and web applications for demonstration purposes. Deployed to production, used by external companies like HSBC.
- Working on a **React** web application with modular widgets that queries real time data from financial data sources.

| Data Analyst | Ministry of Health, Singapore | Dec 2020 – Apr 2021 |
|---|---|---|

- Consolidated and processed Covid-19 information from relevant sources into figures and charts for press release.
- Improved and maintained codebase in **Python** and **Stata** to improve data processing ability for documents passed between the different divisions, greatly reducing the time needed to manually process them.

## PROJECTS

**Home Server**

- Repurposed an old PC into a personal home server running Manjaro Linux.
- Set up **Docker** containers that are selectively exposed to the web using a tunnelling reverse proxy service through a VPS, allowing for easy monitoring and maintenance of system and container health.
- Currently self-hosting a personal Git service, file storage solution as well as multiple web applications.

**Web Applications**

- **Algorithm Visualizer** – A **React** web application for the visualization of some sorting algorithms and a simple pathfinding algorithm. Uses the **Material UI** library.
- **WordTris** – A 2-player real-time competitive web game built with **React**, **Express** and **Socket.io** in a day for the iNTUition 2022 hackathon.

## ADDITIONAL EXPERIENCE AND AWARDS

- **National Champions, RoboCup Rescue Line (2018):** Programmed a line-tracking robot in **C++** (Arduino) with ball capturing and sorting capabilities for an obstacle-course-like competition. Represented Singapore in RoboCup Montreal for the Rescue Line Category.
- **Champions, NUS Data Analytics Competition (2022):** Analyzed geospatial datasets using **Python** featuring transport data in Singapore and Jakarta provided by Grab to formulate solutions to tackle the problem of late arrivals.
- **1st Runner Up, TezAsia Hackathon (2022):** Developed an NFT Marketplace with **React** and **Express** for users to mint and view 3D panoramic NFTs on the Tezos blockchain. **SmartPy** was used for building Smart Contracts for minting.

## TECH STACK

- Languages: Javascript/HTML/CSS, Python, C++, SQL, Bash
- Frameworks and Libraries: React, Vue, React Native, Flutter, Node.js, Express.js
- Tools: Git, Linux, Docker, Figma
- Others: TensorFlow, PyTorch, OpenCV, SmartPy