

# Nicholas Wen

## Summary

I am an aspiring software developer, who is deeply interested in software and how it work under the hood. My interests vary from web and mobile development to systems design and algorithms, as well as operating systems and compilers.

## Contact Information

Portfolio: <https://bladeacer.gitlab.io/portfolio/>

LinkedIn: <https://www.linkedin.com/in/nicholas-wen-a525832b2>

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Languages: English, Chinese

Location: Singapore

## Education

### Diploma in Information Technology

Nanyang Polytechnic

**Apr 2023 - Present**

Singapore

### GCE 'O' Levels

Holy Innocents' High School (HIHS)

**Jan 2019 - Dec 2022**

Singapore

## Skills

**Artificial Intelligence** PyTorch, TensorFlow, Langchain, HuggingFace

**Web Development** HTML / CSS, SASS, Tailwind, Bootstrap, NodeJS, ReactJS, JavaScript, TypeScript, C#

**Others:** Python, Kotlin, Go, Rust, Docker, Docker Compose, PowerShell, Bash, Redis, KeyDB, Git, MySQL, MS SQL, SQLite

## Work Experience

### EUC Systems Intern

Fujitsu

**Mar 2025 - June 2025**

- Assisted end users with troubleshooting general software issues, and wrote Python scripts to **automate repetitive tasks**.
- Imaging, setting up and wiping data for **80+** Windows 11 laptops. Tagged and accounted for over **120+** assets.

## Relevant Coursework

### [Automo](#)

School Project

**Apr 2024 - Aug 2024**

- Implemented **SARIMA time-series forecasting** with data.gov.sg dataset, with Docker Compose in **decoupled service architecture**. Added KeyDB for **in-memory caching** and Goatcounter for **observability and analytics**.
- Interactive dashboard and Executive Summary with **configurable system prompt** with various export options. Modern frontend stack with Mantine UI and TypeScript, CORS with JWT authentication, fuzzy search integrations.

### [NYP-FYP CNC Chatbot](#)

Final Year Project

**Jun 2025 - Aug 2025**

- Improve codebase for better performance, reducing startup time from 30 seconds to **under 10 seconds**. Improved data management using **SQLite** instead of JSON.
- Added **quality of life features** such as search, rate limits, audio preprocessing, **containerisation with Docker**.

## External Projects

### [Flexcyon](#)

Personal Project

**Sep 2024 - Present**

- An Obsidian.md theme with terminal inspired aesthetics. Over **3000 downloads** and **300+ customisation options**.
- [Documentation](#) in both **English and Chinese**. Use of **SCSS for codebase modularity**, with SemVer and linting.

## Co-curriculars

### NDP 2024 Motivators

**May 2024 - Aug 2024**

### Hwa Chong Mindsports Championships

**Apr 2024**

### Project Mid-Autumn Festival

Student Organiser

**July 2023 - Sep 2023**

### HIHS Chinese Weiqi Club

Exco Member

**Feb 2021 - Feb 2022**

## Awards and Honors

### [Edusave Award for Achievement, Good Leadership and Service \(EAGLES\)](#)

Ministry of Education (MOE)

2021

## Certifications

### [Generative AI in Action](#)

IBM SkillsBuild

2026

### [Certificate of Participation for Beyond Borders with DDAS | Hong Kong Edition](#)

Digital Defence Alliance Singapore (DDAS)

2025

### [Google Data Analytics](#)

Coursera

2025

### [Google IT Automation with Python](#)

Coursera

2024

### [Google IT Support](#)

Coursera

2024