

Hu Bowen

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ABOUT ME

Passionate cybersecurity student in Ngee Ann Polytechnic specializing in software development and web exploitation. Self-motivated learner dedicated to pushing boundaries in the cybersecurity field, driven by a constant thirst for knowledge in the ever-evolving cybersecurity landscape.

EDUCATION

Ngee Ann Polytechnic

Apr. 2023 – Present

Diploma in Cybersecurity & Digital Forensics

- cGPA: 4.00
- DSTA Polytechnic Digital Scholar
- NullSec (Cybersecurity Interest Group) Exco. Wrote a vulnerable web app to teach pentesting. Authored challenges for inter-poly CTF, Lag & Crash.
- Participated in numerous CTFs, notably TISC 2023, PatriotCTF 2023 and SpookyCTF 2023

PROJECTS & EXPERIENCE

SimpleOS

May. 2022 – Jun. 2022

- Bare metal operating system written in Assembly and C
- Learnt a lot about how operating systems worked under the hood, such as interrupts, filesystems, memory paging, and hardware such as the programmable interval timer.
- Implemented a basic shell and a fully functioning snake game. All functions were custom written, none were linked against libc.

Canteen Queue Estimator

Jun. 2022

- AI application to count the number of people in the school canteen. Data is displayed on a Flask webserver which can be accessed by anyone throughout the school.
- Uses YoloV5 crowdhuman, a fine-tuned model of YoloV5 to detect human heads in the queue.

Rust Blog

Feb. 2023 – Sep. 2023

- Fullstack blog site written with Rust and SurrealDB, a cutting-edge multi-model database.
- Learnt a lot on CI/CD concepts, and hands on experience with deploying sites into production.

Track It

Dec. 2023 – Present

- A collaborative to-do tracker written in Next.JS, uses Supabase to manage user authentication.
- Written to improve my web development skills, future platform to improve my pentesting skills.

Hack The Box

Jun. 2021 – Present

- Avid player of HTB, owned multiple easy boxes in my free time.
- Wrote custom exploitation scripts for some boxes to learn bash scripting.

ACHIEVEMENTS & SKILLS

- **Achievements:** TISC'23 Level 6 Completion; Certificate of Participation in NOI 2022; YCEP 2021 Finalist
- **Skills:** Various programming languages (Python, Rust, C++, React); Familiarity with Linux (Pop! OS, Kali, RedHat Enterprise); Teamwork; Leadership