

# Yap Ho Wen

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Passionate Fullstack Engineer with strong skills in both front-end and back-end development. Proficient in TypeScript, NextJS, Python, and SQL. Eager to contribute to innovative projects.

## EDUCATION

### Bachelor of Computing in Computer Science

Aug 2022 - Present

NATIONAL UNIVERSITY OF SINGAPORE

Relevant course work: Programming Methodology, Data Structures & Algorithms, Computer Organisation, AI & Machine Learning, Software Engineering, Database Systems, Information Security

## WORK EXPERIENCE

### Software Engineering Intern

May 2022 - Present

#### Oyen Insurance

Malaysia

- Implement a payment method system that allows for multiple payment options and automated CRON jobs
- Develop backend RESTful APIs to provide valuable data for frontend and internal applications
- Create new frontend components to meet product requirement

## SKILLS

**Tools:** Git, Github, Docker, Vercel, PostmanAPI, DBeaver, Jira, Slack

**Programming Languages:** TypeScript, Python, Java, Golang, C, SQL

**Frameworks & Libraries:** React, NextJS, Remix, Tailwind, Prisma, FastAPI, Gorilla/Mux, Numpy, Pytorch

## LANGUAGES

**English** (Native proficiency) • **Mandarin** (Native proficiency) • **Cantonese** (Professional working proficiency)

## PROJECTS

### Oyen 🔗

Constructed an authentication page using FastAPI, facilitating seamless user signup and login experiences while maintaining session continuity. Ensured security of authentication credentials with SHA-256 encryption standards.

- HTML, CSS, Javascript
- Python, FastAPI, SQLite
- SQLAlchemy, Pydantic

### Alfred 🔗

Engineered a comprehensive API for managing users, tasks, and projects, integrating JWT authorisation and JSON payload validation for robust security and efficiency. Implemented unit testing to ensure programme validity and reliability.

- Golang
- MySQL Driver, JWT, Gorilla MUX
- MySQL, Docker

### Pokedex 🔗

Created a dynamic website for users to explore a variety of Pokémon, enabling them to curate a personalised Pokédex, enhancing accessibility to Pokémon information.

- TypeScript, Remix, React, Tailwind
- Pokeapi's GraphQL endpoint

### Car Rental Database

Designed a robust and consistent backend PostgreSQL database from scratch to facilitate the needs of a hypothetical car rental company

- Created a database schema to satisfy requirements for car rental, payment, return, pickup, etc
- Implemented triggers to safely manipulate database entries without violating constraints
- Integrated functions to aid analyse business performance by computing revenue and querying top performing locations

### EffiTrack 🔗

Developed an application empowering HR managers to assign tasks to employees and monitor efficiency metrics seamlessly.

- Java, JavaFX
- Gradle, Github Actions