

NG XUAN YI

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EDUCATION

Nanyang Technological University

Aug 2021 - Present

- Penultimate UG/Bachelors
Double Degree in Business (Specialisation in Data Analytics) & Computer Science
- Expected Graduation: June 2026
- Internship Dates: 3 Jan 2025 to 3 August 2025

Hackathons

- PSA Code Sprint 2023 [Consolation Prize]
- SCSE TechFest Hackathon 2023 [Participant]
- Google Hash Code 2022 [Participant]

PROJECTS

PandaPlay | MERN Stack [Work-In-Progress]

Jun 2024 - Present

- Developed a dynamic anime streaming platform using MongoDB, Express.js, React, and Node.js.
- Implemented a search functionality enabling users to find and watch their favourite anime series seamlessly.
- Designed an intuitive homepage showcasing popular anime to enhance user engagement.
- Planned and began integration of key features such as user authentication, comment sections, and personalised watchlists to improve user experience.

Bus Express SG | Android (Kotlins + Jetpack Compose)

Dec 2022

- Published an application that details the arrival timings, occupancy rates, and other details of Singaporean buses on Google Playstore, by retrieving relevant information from LTA Datamall APIs via Retrofit and Room APIs.
- Furnished the application UI layer with beautiful aesthetics using Material Design & Jetpack Compose.
- Provided accessibility features whenever possible with Google's Talkback.
- Implemented dark mode, navigation features, and allowing users to create a favourites list.

Finance | Flask

May 2022 - Jun 2022

- Developed a responsive stock trading web application that allows users to "buy" & "sell" stocks, using the
- Python Flask Framework, SQLite3, HTML, CSS, and Jinja Templating.
- Communicates with Yahoo's API to download stock quotes in real time.
- Developed the database in SQLite3, before deploying the web application on Render.
- Other QOL features includes a transaction history, changing of passwords, and adding of funds.

WORK EXPERIENCE

Continental Automotive Singapore Pte Ltd | Software Engineer Intern

July 2024 - Present

- Designed and implemented a Bash script to streamline the deployment of Docker containers for a Django web application focused on fuzzing techniques. This solution minimized manual setup, reduced system startup delays, and saved approximately 5 hours per month in operational overhead.
- Developed a custom Jenkins plugin that seamlessly integrates in-house ASAN Fuzzing algorithms into the CI/CD pipeline. This ensured that builds are rigorously tested against fuzzing standards set by the end user, automatically passing only when the application withstands fuzzing for the defined duration.

EV-Electric (Eve) Charging Pte Ltd | Data Analyst Intern

May 2023 - Jul 2023

- Developed a web scraping script to extract EV Charger locations and associated operators, supporting strategic installation decisions for additional or fast chargers in Singapore.
- Centralized datasets and automated data report generation, saving 10 manpower hours per month previously spent on manual compilation.
- Analyzed and visualized EV owners' charging behavior, identifying over-subscribed carparks and recommending areas for charger deployment.
- Created scripts to scrape and monitor daily petrol and EV charging prices, contributing to market price analysis and trend forecasting.

SKILLS

Languages : C, C++, Python, Java, Javascript, R, Kotlins, Typescript
Frameworks : Django, Django REST, Flask, Retrofit, Pandas, Bootstrap, Express.js, Node.js
Frontend : HTML, CSS, SASS, Jinja Templating, Android Compose, ReactJS, Angular
Databases : SQLite3, MySQL, MongoDB
Others : Git, Unit Testing, Docker, AWS, Data Analytics, Figma, Adobe Premier Pro, Unix