NG XUAN YI

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EDUCATION

Nanyang Technological University   Aug 2021 - Present
- Penultimate UG/Bachelors
  Double Degree in Computer Science & Business (Specialisation in Data Analytics)
- Expected Graduation: June 2026
- Internship Dates: May 2025 to August 2025

Hackathons
- PSA Code Sprint 2023 [Consolation Prize]
- Google Hash Code 2022 [Participant]

WORK EXPERIENCE

DSO National Laboratories | Software Engineer Intern   15 Jan 2025 - Present
- Maintained and enhanced Warden, an internal web application for hardening computer operating systems, including implementing offline support for icons and fonts to improve functionality.
- Implemented a database feature to preload base CIS benchmark policies for multiple operating systems, streamlining user workflows by enabling duplication and customization without manual imports.

Continental Automotive Singapore Pte Ltd | Software Engineer Intern   July 2024 - Nov 2024
- Developed a custom Jenkins plugin that integrates memory leak detection using fuzzing algorithms within the CI/CD pipeline, enabling early identification of memory issues and improving software stability.
- Implemented an Express.js server to automate Docker container deployment for fuzzing tests, with automated crash reporting that saves problematic seed files and error outputs, enhancing error tracking and troubleshooting.
- Improved developer efficiency by integrating detailed logging and storing error files in Jenkins build artifacts, providing accessible data for faster debugging and resolution.

EV-Electric (EVe) Charging Pte Ltd | Data Analyst Intern   May 2023 - Jul 2023
- Automated data collection, analysis, and reporting for EV charger locations and pricing trends, saving 10 hours/month and supporting strategic infrastructure planning.
- Analysed charging behaviour to pinpoint high-demand areas and provided data-driven recommendations for the strategic deployment of fast and slow EV chargers.

PROJECTS

PandaPlay | MERN Stack [Work-In-Progress]   Dec 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.

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