Tan Yi Guan

☐ (+65) 84817893 | ✉ tanyg1@outlook.sg | ⌂ yiguan.me | ⌂ tenebrius1 | in yi-guan

Education

National University of Singapore

BACHELOR OF COMPUTING (HONOURS), COMPUTER SCIENCE (CAP 4.62/5)   Aug. 2020 - Aug. 2024
- Minor in Management (Data Analytics)
- Relevant Coursework: Software Engineering (Principles and Patterns), Design and Analysis of Algorithms, Networking, Security

Experience

TEAMMATES

Open-Source Contributor   Jun. 2022 - Oct. 2022
- Optimized CI pipeline by running linting checks only on changed files, reducing processing time by 30%
- Improved maintainability of documentation by changing static diagrams into UML diagrams

DSO National Laboratories

AI Research Intern   May. 2022 - Aug. 2022
- Researched on state-of-the-art computer vision models and crafted a report synthesising their functionality for different use cases
- Implemented an AI classification algorithm with an accuracy of 90+% using multiple open-sourced and cloud computer vision and NLP APIs
- Parsed and extracted data from a large XML file, resulting in relevant, searchable data that can be used for further research

Projects

Peerprep

Developer   Aug. 2022 - Nov. 2022
- Web application developed using a Microservices architecture for developers to practice in a mock technical interview setting
- Tech Stack: MERN, Azure, Docker, Kubernetes, Socket.IO
- GitHub Repository: View on GitHub

veNUeS

Developer   Jan. 2022
- Telegram Bot that finds available rooms in NUS to study in
- Won **"Top 8 teams"** award in Hack&Roll 2022
- Tech Stack: Python, Google Realtime Database, Telegram Bot API, Heroku, Git
- Live bot link: t.me/NUS_veNUeSBot • GitHub Repository: View on GitHub

CLI Tutors

Software Developer   Aug. 2021 - Nov. 2021
- JavaFX Desktop application built upon a brownfield project using an Agile Software Development lifecycle
- Achieved **80% test coverage** on CodeCov
- Tech Stack: Git, Java, JavaFX, JUnit, Codecov
- Documentation: https://ay2122s1-cs2103t-t17-2.github.io/tp/ • GitHub Repository: View on GitHub

Extracurricular Activities

NUS Students' Computing Club (Sponsorship)

Sub-Committee Member   Aug. 2020 - Aug. 2021
- Prospected sponsor companies from various industries to sponsor events run by club
- Restructured club's approach in attracting sponsors, thereby raising higher funds compared to previous years

Scouts

Troop Leader   Jun. 2015 - Jun. 2016
- Conducted and planned weekly training for 40 members
- Planned, budgeted and coordinated 3 camps in the span of 1 year
- Hosted fund raising event and raised amount of funds to 200% compared to previous years

Skills

DevOps	AWS, Azure, Docker, Kubernetes, GitHub Actions
Back-end	Flask, Django, Ruby on rails, ExpressJS
Front-end	Hugo, ReactJS, HTML5, SASS
Programming	Python, Java, Javascript, C++, LaTeX