

Tang Zhiying, Violet

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EDUCATION

National University of Singapore (NUS)

Expected May 2024

Bachelor of Computing (Honours) in **Computer Science**, second major in Mathematics

CAP: 4.52 / 5.0 (Highest Distinction)

- **Focus Area:** Software Engineering, Artificial Intelligence
- **Coursework:** Design and Analysis of Algorithms, Operating Systems, Computer Networks, Database Systems, Big Data Systems, Machine Learning, Natural Language Processing, Computer Vision
- **Certifications:** AWS Certified Cloud Practitioner

TECHNICAL SKILLS

- **Languages:** Java, Python, C, JavaScript
- **Frontend (web):** JavaScript, HTML, CSS, Bootstrap.js, React.js, Express.js
- **Frontend (mobile):** iOS Storyboard, SwiftUI, React Native
- **Backend:** PostgreSQL, Django, Docker, RedHat
- **Cloud:** AWS
- **Tools:** Figma, Git

PROJECTS

SwimmerPen Computer Vision Automation

Jul 2023 – Present

- Collaborated with Singapore Sports Institute to build a **full-stack cross-platform** mobile application
- Applied **Computer Vision** techniques to automate and facilitate analysis of swimming trainings
- Utilized **AWS** cloud storage services to manage storage and access controls

TIH Technical Interview Question Bank

Oct 2022 – Nov 2022

- Collaborated with Tech Interview Handbook to design and build a **full-stack** online interview questions repository web application
- Developed frontend using **Tailwind CSS**, **Next.js**, and **Typescript** Frameworks
- Utilized **Express** web framework to manages serves and routes
- Managed backend database using **Postgres** and **Prisma**. Implemented API with **RRPC** framework

Online Stocks Analysis Platform

Mar 2022 – May 2022

- Designed and built a **full-stack** online market search-and-analyze platform web application
- Set up server side backend using **Python Django** framework
- Constructed an effective and interactive user interface using **React**
- Utilized **Docker** to set up a virtual environment and manage dependencies

EXPERIENCE

Campus Job: Teaching Assistant

Jan 2022 – Nov 2022

- **Data Structures and Algorithms:** Prepared and led weekly tutorial lessons, graded assignments in **Java**
- **Computer Organization:** Prepared and led weekly tutorial lessons, graded assignments in **C**

OTHERS

- **Achievements:** Deans' List AY2020/2021 Semester 2, Hwa Chong Diploma with distinction
- **Languages:** Fluent in English, Chinese and Japanese