

Tang Zhiying

(+65) 88904881 | tangzhiying2001@gmail.com | <https://zhing22.github.io/website/>

EDUCATION

National University of Singapore, School of Computing, Singapore

Expected May 2024

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

CAP: 4.66 / 5.0 ([Transcript](#))

- **Selected Coursework:** Data Structures and Algorithms, Software Engineering, Artificial Intelligence, Machine Learning, Computer Organization, Linear Algebra I & II, Multivariable Calculus, Statistics

TECHNICAL SKILLS

- **Programming Languages:** Java (IDEs: IntelliJ, Vim, Eclipse), Python (IDE: PyCharm), C
- **Web Development:** JavaScript, HTML, CSS, Bootstrap.js, React.js, Django, Docker
- **Database:** SQL

PROJECTS AND EXPERIENCE

Project: Online Stocks Analysis Platform

May 2022 – In progress

- 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 Alpaca Markets, PRAW, PSAW **APIs** to scrape and collect data from online sources
- Utilized **Docker** to set up a virtual environment and manage dependencies

Project: Desktop Application to Manage and Analyze student performance

Sep – Nov 2021

- Developed a **full-stack** desktop application using **Java**, to help professors store comprehensive data of the student cohort, and provide multi-level **data analysis** of students' performance
- Developed an interactive **GUI** using **javaFX**, displaying data analysis using various forms of infographics
- Manipulated and managed database using **JSON** format
- Collaborated with a team of 5 members, and followed various **software engineering** practices under the guidance of the CS2103T module
- Delivered new features and managed releases following **Agile** development practices. Utilized **GitHub** for version control and project management

Project: Personalized Task Keeping Chatbot

Aug – Sep 2021

- Developed a **full-stack** desktop application using **Java** backend and **JavaFX** frontend, for task keeping and deadline management
- Managed project related JAR files using **Gradle** and made releases on **GitHub**

Campus Job: Teaching Assistant for CS2040S Data Structures and Algorithms

Jan – May 2022

- Prepared and led weekly tutorial lessons, explained **data structure and algorithm** concept to students
- Graded and reviewed weekly coding assignments in **Java**
- Developed deeper understanding of the application of algorithms in real-life problems

CERTIFICATES

- Deans' List AY2020/2021 Semester 2, Hwa Chong Diploma with distinction