

TEO HONG RUI

 +65 9781 5592 |  hongrui.teo@u.nus.edu |  [hongruiteo](https://www.linkedin.com/in/hongruiteo) |  [seththeo](https://github.com/seththeo) |  [Website](#)

EDUCATION

Bachelor of Computing in Computer Science, Honours **Aug 2022 – Present**
National University of Singapore (NUS)

- Current CGPA: 4.52 (Highest Distinction)

GCE 'A' Levels **Jan 2018 – Nov 2019**

Anglo Chinese Junior College

SKILLS

- Programming Languages: Python, Javascript, Java, HTML/CSS
- Databases: MySQL, MongoDB
- Tools and frameworks: React, Express.js, Git, JakartaEE, Azure

WORK EXPERIENCE

Software Engineer Intern **May 2024 - Present**
DSO National Laboratories

- Developed and deployed a conversational AI chatbot utilising a private deployment of gpt-4o on Microsoft Teams which serves over 500 internal employees.
- Implemented Retrieval-Augmented Generation (RAG) capabilities via Azure, allowing the chatbot to extract and deliver information from internal company documents.
- Engineered a robust and scalable deployment pipeline to ensure seamless future deployment and updates.
- Integrated logging into a private database to support error resolution and maintain conversation history.
- Authored comprehensive documentation of the development process and codebase, facilitating future enhancements by new engineers.

Teaching Assistant **Aug 2023 - Present**
National University of Singapore

- Prepared lesson materials as well as graded assignments for two modules in School of Computing.
- Programming Methodology (CS1010J) in AY23/24 Semester 1, AY24/25 Semester 1.
- Data Structures and Algorithms (CS2040) in AY23/24 Semester 2, AY24/25 Semester 1.

TECHNICAL PROJECTS

AlertUs

Python, Telegram Bot API, MongoDB

- Telegram bot to help users keep track of prices of up to three items on two major grocery stores in Singapore (Fairprice and Cold Storage).
- Bot features daily price tracking, notification function, price against time plot of items as well as a simple interface with detailed step-by-step instructions.

- [Video](#)

EatAlreadyNot?

NodeJS, ExpressJS, HTML, CSS, MongoDB

- A website designed to combine my love for food and web development.
- The site hosts food recommendations from users and allows users to add reviews or new recommendations to.
- Features include: Full CRUD, Interactive map with auto-fill and user authentication/authorisation

- [Video](#)

EXTRACURRICULAR ACTIVITIES

Deputy Director of Academic Liaison
26th NUS Students' Computing Club (Main Committee)

- In charge of handling the planning and execution of events relating to academics (Hackathons, Career Fairs)

SMU Hack For Cities (Hackathon)

- Attained first runner-up out of 300 total participants