

HA THU TRAN

COMPUTER SCIENCE UNDERGRADUATE

I am a fast learner and hard worker who is deeply passionate about the fields of Software Engineering, Quantitative Finance, and Artificial Intelligence. With extensive experience with multiple tech stacks and languages, I am confident that I will be a great asset to your company!

<https://oeggy03.github.io/>
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<https://github.com/oeggy03>

EXPERIENCE

Teaching Assistant for CS1101S – Programming Methodology

National University of Singapore – School of Computing

Aug 2023 – Dec 2023

- Taught programming concepts and JavaScript to students through self-prepared tutorial sessions.
- Graded assignments and aided professors.

Data Engineering Intern

Eastspring Investments – Data and AI

May 2023 – Aug 2023

- Maintained production and raw tables for the company's database using Python and SQL.
- Optimized and helped develop an Artificial Intelligence chatbot using ChatGPT's API.

Artificial Intelligence Intern

*A*STAR – SCEI*

Dec 2019 – Jan 2020

- Programmed and trained a working robot arm capable of image recognition using Python and OpenCV.

SKILLS

- | | |
|---|-------------------------------|
| • Frontend: React, HTML, CSS, JavaScript | • Data Engineering |
| • Backend: Go & Fiber, SQL, express.js, REST APIs | • Software Development |
| • Languages: Python, Java | • Mathematics |
| • Others: Git, GitHub, Bitbucket, Jira, Excel, Word | • Object-Oriented Programming |

EDUCATION

Bachelor of Computing – Computer Science, with Quantitative Finance & Management minors

GPA: 4.7 / 5.0 (First Class Honors)

National University of Singapore (NUS)

Aug 2022 – May 2026

- Invited to work for CVWO and become a teaching assistant for 3 programming modules.
- Attained As for all programming, SWE, math modules so far.
- Part of the following committees: Freshman Social Camp 2023, RAG 2023, FLAG 2023, Tembusu College photography club EXCO, NUS Origami Club EXCO, Lifehack 2024 hackathon.

A-Level Certificate, Junior College & Secondary School

Grade (A-levels): 90/90 Rank Points

Temasek Junior College

Jan 2016 – Dec 2021

- Executive member for the Infocomm Club for 2 years.

ACHIEVEMENTS

- 1st runner up for the SMU Hack for Cities (Quantum Computing) Hackathon 2023.
- Dean's List and Academic Excellence Awardee in 2022.

PAST PROJECTS

Personal Website: <https://oeggy03.github.io/>

- Used [React](#), [HTML](#), [CSS](#), and [JavaScript](#) to create a website that showcases all my work and experiences.

Task-tracking chatbot

- Used [Java](#), [JavaFX](#) while utilizing [OOP](#) to create the bot and [Git](#) and [GitHub](#) for version control.
- Link to user guide, project description and releases: <https://oeggy03.github.io/ip/>

Telegram Bot for loaning of equipment

- Used [Python](#), [Google Sheets](#) and [Telegram APIs](#) to create a Telegram Bot to facilitate the loaning of camera equipment in Tembusu College.

Telegram Bot with image recognition capabilities

- Used [Python](#), [TensorFlow](#) and [OpenCV](#) to train the model on the CIFAR10 dataset, and the [telegram API](#).
- Link to project: <https://oeggy03.github.io/TeleAI/>

BUDDY4GOOD Website (Hack 4 Good Hackathon Project)

- This website aims to pair up able-bodied and those with disabilities/special needs, to combat stigmatization and encourage both parties to spend time doing everyday activities together.
- Used [React](#), [HTML](#), [CSS](#), [JavaScript](#) for the frontend, [Go](#) for the backend and [MySQL](#) for the database.
- Created and used [REST APIs](#) to facilitate communication between the frontend and backend.
- Link to project: <https://devpost.com/software/buddy4good>

Forum Website

- Used [React](#), [HTML](#), [CSS](#), [JavaScript](#) for the frontend, [Go](#) for the backend and [MySQL](#) for the database.
- Used [REST APIs](#) for communication between the frontend and backend, and jwt tokens and bcrypt for secure user authentication.
- Link to project: <https://devpost.com/software/buddy4good>

Telegram Bot for food wastage reduction (Lifehack 2022 Hackathon Project)

- Used [Python](#), [SQLite](#), [telegram API](#) and [google maps API](#) to design a telegram bot that serves as a platform for people to share their unused ingredients and leftover food.
- Link to project: <https://devpost.com/software/kaliilinux>

Trash Clearing Robot Arm

- Used [Python](#) and [OpenCV](#) to train an AI model to recognize and pick up trash with a UR5 robot arm.
- Link: <https://sites.google.com/view/tjc-wow-2020/home/astar-scei/tran-ha-thu>