

HA THU TRAN

YEAR 3 COMPUTER SCIENCE / QUANTITATIVE FINANCE UNDERGRADUATE @ NUS
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EXPERIENCE

Housing Development Board (HDB) • Data Analysis & Machine Learning Intern	May 2024 – Present
<ul style="list-style-type: none">Utilized machine learning, data analysis and software engineering to drive business processes in HDB.	
CareforWe (Healthtech Startup) • Software Engineer	Dec 2023 - Present
<ul style="list-style-type: none">Managed and led both front-end and back-end development of a video hosting website.	
National University of Singapore • Teaching Assistant	Aug 2023 – Present
<ul style="list-style-type: none">Taught programming concepts, JavaScript, and Python to students through self-prepared tutorial sessions.Rated 4.8/5.0 in the student feedback exercise (Department average: 4.3).	
Eastspring Investments • Data Engineering Intern	May 2023 – Aug 2023
<ul style="list-style-type: none">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.	
A*STAR Research • Artificial Intelligence Intern	Dec 2019 – Jan 2020
<ul style="list-style-type: none">Programmed and trained a working robot arm capable of image recognition using Python and OpenCV.	

EDUCATION

Bachelor of Computing – Computer Science (Honors)	Aug 2022 – May 2026
<i>National University of Singapore (NUS)</i>	
GPA: 4.7 / 5.0 (First Class Honors)	
<ul style="list-style-type: none">Invited to work for CVWO and become a teaching assistant for 3 programming modules.Part of: Freshman Camp 2023, RAG 2023, FLAG 2023, Tembusu photography club EXCO, NUS Origami Club EXCO, Lifehack 2024 hackathon.Residential Assistant for AY24/25 at UTown Residences.	

SKILLS & TECH STACKS

- Programming Languages:** Python • Java • Go • C • C++ • JavaScript • TypeScript
- Frontend:** HTML • CSS • ReactJS • Tailwind CSS
- Backend & Databases:** Fiber (with Go) • express.js • REST APIs • AWS Cloud • PostgreSQL • MySQL • Microsoft SQL Server

ACHIEVEMENTS

- 1st runner up for the SMU Hack for Cities (Quantum Computing) Hackathon 2023.
- Dean’s List and Academic Excellence Awardee in 2022.
- SAFRA Photographer of the Year 2022 – Honorable Mention.

PROJECTS

Personal Website: https://www.tranhathu.com/
<ul style="list-style-type: none">Used React, HTML, CSS, and JavaScript to create a website that showcases all my work and experiences.
Quantitative Trading Toolkit: https://github.com/oeggy03/quant-retrieving-financial-data
<ul style="list-style-type: none">Used Python and MATLAB to create a set of functions for stock data scraping, monitoring, backtesting and calculating of ratios.
Graph for Stock Price Tracking: https://github.com/oeggy03/stock-graph-jpmc
<ul style="list-style-type: none">Used React, TypeScript, JPMorgan’s Perspective, and Python to scrape data from Yahoo finance and visualize stock data.Adapted from JPMorgan Chase’s Software Engineering forage program.
Task-tracking chatbot: https://oeggy03.github.io/ip/
<ul style="list-style-type: none">Used Java, JavaFX while utilizing OOP to create the bot and Git and GitHub for version control.
Telegram Bot with image recognition capabilities: https://oeggy03.github.io/TeleAI/
<ul style="list-style-type: none">Used Python, TensorFlow and OpenCV to train the model on the CIFAR10 dataset, and the telegram API.
BUDDY4GOOD Website (Hack 4 Good Hackathon Project): https://devpost.com/software/buddy4good
<ul style="list-style-type: none">This website pairs up the able-bodied and those with disabilities for activities to combat stigmatization.Used React, HTML, CSS, JavaScript for the frontend, Go, REST APIs for the backend and MySQL for the database.
Forum Website: https://devpost.com/software/foroom
<ul style="list-style-type: none">Used React, for the frontend, Go, REST APIs for the backend, MySQL for the database and jwt tokens and bcrypt for secure authentication.
Telegram Bot for food wastage reduction (Lifehack 2022 Hackathon Project): https://devpost.com/software/kalilinux
<ul style="list-style-type: none">Used Python, SQLite, telegram API and google maps API to design a telegram bot for people to share leftover ingredients and food.
Trash Clearing Robot Arm: https://sites.google.com/view/tjc-wow-2020/home/astar-scei/tran-ha-thu
<ul style="list-style-type: none">Used Python and OpenCV to train an AI model to recognize and pick up trash with a UR5 robot arm.