

CHEE HENG KOH

M: +65 90238589

E: chee_heng_koh@u.nus.edu

github.com/cheehengk

linkedin.com/in/cheehengk/

EDUCATION

National University of Singapore (NUS)

Jul 21 - Present

Bachelor of Engineering (Computer Engineering)

- Relevant Courses: Programming Methodology, Data Structures and Algorithms, Introduction to Machine Learning, Software Engineering and Object-Oriented Programming, Blockchain Engineering
- Deans' List in Academic Year 2022/23 S1
- Current GPA: 4.73 Honors (Highest Distinction)

Boston University

Sep 23 - Dec 23

Student Exchange Program, United States

- Relevant Courses: Database Management, Computer Networking, Operating Systems

WORK EXPERIENCE

AlphaTrue (Ho Chi Minh City, Vietnam), Software Engineering Intern

May 23 - Aug 23

- Built APIs with Django and Flask under the Scrum framework.
- Designed and constructed back-end logic of web-app features such as vector embedding similarity search.
- Wrote comprehensive tests to automate testing of API endpoints.
- Optimized user experience by reducing idle wait time with asynchronous task queues (Redis queue).
- Presented work progress and initiatives to development team monthly.

National University of Singapore (Singapore), Software Engineering Student Advisor

May 23 - Aug 23

- Advised twelve student teams on technical and project management aspects of software engineering.
- Performed administrative duties and database management for online portal used by over 500 students.

National University of Singapore (Singapore), Teaching Assistant

Jan 23 - May 23

- Conducted weekly tutorials for Software Engineering and Object-Oriented Programming course.
- Appointed to perform course administration and coursework grading.

PROJECTS

Inventory Management System for St John Brigade Singapore, Full-Stack Developer

Apr 23 - Present

- Develop front-end and back-end capabilities of web-app to facilitate inventory and logistics management.
- Communicate with client on monthly deliverables and user experience optimizations.
- Technical Skills: ReactJS, Django, SQL, Database Design.

Document to Video Conversion with Generative AI, Developer

May 23 - Jul 23

- Implemented backend functionality to enable conversion of PDFs into narrated and subtitled MP4 videos.
- Deployed service as a web-app with Google Cloud Platform's virtual machine instance.
- Technical Skills: Flask, Docker, Celery, Google Cloud Platform, LangChain, Redis.

Exercise Monitoring With Computer Vision, Developer

May 22 - Jul 22

- Built backend logic for mobile cameras to monitor user's posture in four different exercises.
- Developed mobile compatible web-app for computer vision functionality.
- Technical Skills: OpenCV, ReactJS, Firebase, Redis and AWS EC2.

CORE COMPETENCIES

Programming Language: Python, C++, Javascript, Java, C, Matlab, Solidity, Verilog

Tech Stack: ReactJS, Firebase, Redis, Redux, Flask, Django, Docker, Celery, DBMS (MySQL, PostgreSQL)

Others: Git, Microsoft Office (Excel, Word, PowerPoint), Final Cut Pro X (Video Editing), R Studio, Canva

EXTRA CURRICULAR / OTHER ACTIVITIES

St John Brigade Singapore, Voluntary Full-Stack Developer

Apr 23 - Present

- Implement inventory management system as a full-stack developer in a team of six.

National University of Singapore Cuesports Club, Vice President

May 22 - May 23

- Led executive committee of 16 members in club projects and events.
- Liaised with external parties for events and projects involving over 100 personnel.

SRA Retail Reimagined Innovation Challenge, Finalist

May 22 - Jul 22

- Proposed Augmented Reality and Blockchain solution help retail businesses adopt Web3.0 technologies.
- Completed the Challenge, clinching the Finalist and Best Teamwork awards.