

# Chee Heng Koh

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## Personal Profile

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As a student majoring in Computer Engineering at National University of Singapore, I am a motivated and enthusiastic individual with a passion software engineering and innovation. Over the course of my studies, I have been equipped with a solid foundation in both hardware and software principles, allowing me to approach challenges with a holistic perspective.

## Education

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### National University of Singapore

Singapore

Bachelor of Engineering (Computer Engineering)

July 2021 - Current

- **Courses:** Programming Methodology, Data Structures and Algorithms, Introduction to Machine Learning, Software Engineering and Object-Oriented Programming, Blockchain Engineering, Calculus, Discrete Structures, Linear Algebra
- Deans' List in Academic Year 2022/23 S1

## Work Experience

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### AlphaTrue Joint Stock Company

Ho Chi Minh City, Vietnam

Software Engineer Intern (Backend)

May 2023 - Aug 2023

- Design and implement Web-Application compatible AI utility features.
- Develop AI agents and supporting vector embedding database.
- Design and implement APIs to support features developed.

### National University of Singapore

Singapore

Teaching Assistant and Software Engineering Student Advisor

Jan 2023 - Aug 2023

- Conducting tutorials for Software Engineering and Object-Oriented Programming course.
- Assisting in course administration and coursework grading.
- Advise student teams on technical and project management aspects of software engineering.
- Perform technical administrative duties and database management.

### Singapore Armed Forces

Singapore

Instructor / Online-Learning Platform Staff

Dec 2019 - Feb 2021

- Trained and led cohorts of cadets in command school to ensure quality of leaders in the force.
- Facilitated and maintained online-learning process of cadets and provided basic technical support.

## Projects

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### Document to Video AI Conversion

Singapore

Personal Project

May 2023 - Jul 2023

- Created a Web-App to convert PDF documents into summary videos with audio narration.
- Used LLMs and other AI enabled technologies to achieve desired conversion quality.
- **Technical Skills:** Celery, Docker, Flask, Google Cloud Platform, LangChain, Redis
- **Soft Skills:** Software Project Collaboration, Product Presentation

### Fundraising on Ethereum Blockchain

Singapore

National University of Singapore

Sep 2022 - Nov 2022

- Created a Web-App for charity fundraising on the Ethereum Blockchain, transacting in Ether.
- Project done as part of NUS EE4032 Blockchain Engineering Project.
- **Technical Skills:** ReactJS, Smart Contracts, Solidity
- **Soft Skills:** Project Management, Problem Solving, Project Presentation and Communication

### Exercise monitoring with Computer Vision

Singapore

Form for the Average Joe

May 2022 - Jul 2022

- Created a Web-App, in collaboration with one other teammate, which uses a camera to check user's posture during exercise.
- Project done as part of NUS CP2106 Orbital self-directed project.
- **Technical Skills:** ReactJS, Firebase, Redis and AWS EC2
- **Soft Skills:** Project Management, Software Engineering Practices, Problem Solving

## Skills

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<b>Programming</b>	Python, C++, Java, Javascript, C, Matlab, Solidity, Bare-Metal Programming, Verilog
<b>Tech Stacks</b>	ReactJS, Firebase, Ruby on Rails, Redux, Flask, Django, Docker, Celery, DBMS (MySQL, PostgreSQL)
<b>Others</b>	Git, Microsoft Office (Excel, Word, PowerPoint), Final Cut Pro X (Video Editing), R Studio, Canva, Autodesk Fusion 360

## Extra Curricular / Other Activities

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### St John Brigade Singapore

Voluntary Fullstack Developer

Singapore

Apr 2023 - Current

- Work on inventory management system as a fullstack developer.
- Design backend infrastructure: APIs and databases.
- Contribute to frontend development and UI design.

### NUS Cuesports

Vice-President

Singapore

May 2022 - May 2023

- Led executive committee for projects and events.
- Managed administration of clubs activities under the Presidential cell.
- Collaborated with external parties for events and projects.

### SRA Retail Reimagined Innovation Challenge

Competitor

Singapore

May 2022 - July 2022

- Proposed Augmented Reality and Blockchain solution to scale retail businesses towards Web3.0 technologies.
- Challenge Finalist
- Clinched Final award for Best Teamwork

### U21 Global Citizenship Course

Participant

Global (Online)

Oct 2022

- Graduated from course after project work and discussions with other undergraduates from around the world.

## Languages

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<b>English</b>	Professional proficiency
<b>Mandarin Chinese</b>	Bilingual Proficiency (Reading and Writing)