

Haeohreum Kim

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EDUCATION

University of New South Wales

Bachelor of Advanced Computer Science (Honours)

Sydney, Australia

Jan. 2023 – Dec. 2025

- WAM: 90.875, GPA: 4.00.
- Transferring into BSci (Computer Science).

PROJECTS

Live chatroom | *TypeScript, Express, React, Docker, Web Sockets, MySQL*

December 2023 – Present

- Developed a full-stack web app which allows users to register, login and talk to others in live chatrooms.
- Implemented web sockets and learnt about web socket protocols to effectively manage live messages.
- Collaborated with peer to effectively manage weekly workflow and reach deadlines.
- Used webpack to deploy React frontend to the web through Express.

Trading information and analytics API | *Python, Flask, React, MySQL*

October 2023 – December 2023

- Developed a Python API and CLI App that effectively found profit opportunities within the NASDAQ and NYSE.
- Usage of common trading strategies, such as simple moving average and volume weighted average price.
- Implemented elementary CI/CD pipeline using GitHub actions.
- Successfully requested registers, logins, logouts and received raw JSON data on stocks using the API.

Kahoot API reconstruction | *TypeScript, Express, Jest*

May 2023 – August 2023

- Worked as team leader in Software Engineering Fundamentals course.
- Effectively managed team productivity using Jira, Confluence and GitLab.
- Personally contributed more than 50% of the codebase in a 4 person team.
- Achieved a project mark of **98**.

EXPERIENCE

Alumni Tutor

Rosebank College

Jan. 2023 – Present

Five Dock, Sydney

- Invited back to serve as an academic tutor for the college, after graduating as DUX.
- Effectively increased average grade in each students over the 2023 calendar year.
- Maintained 100% of non-HSC bookings from 2023 over to 2024.
- Worked with other tutors to deliver engaging classroom content and encourage deep work.

Musical Accompanist

Rosebank College

Jan. 2023 – Present

Five Dock, Sydney

- Invited back from college music faculty to serve as an drum kit accompanist for future HSC cohorts.
- Effectively managed and assisted with over a dozen student's repetoires.
- Coordinated with students, music teachers and coordinators to create an optimal performance.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C

Frameworks: React, Node.js, Flask, Jest, Express

Developer Tools: Git, VS Code, Vim, MySQL

Libraries: ws, bcrypt, mysql2, pandas

EXTRACURRICULARS

- **2024 CSESoc Peer Mentor:** Assisting first years in adjusting to university with social and academic gatherings, in the Computer Science and Engineering Society.
- **2023 CompClub Mentor:** Teaching students from all over Sydney the fundamentals of computer science and popular development trends.