

Chiew Yi Xiang

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EDUCATION

National University of Singapore

Aug 2021 – Present

Bachelor of Engineering in Computer Engineering (Honours), CAP: 4.32/5.00

Relevant coursework: Programming Methodology I, Data Structures & Algorithms, Software Engineering & Object-Oriented Programming, Database Systems, Engineering Principles and Practices I & II

River Valley High School

Jan 2013 – Dec 2018

Singapore Cambridge General Certificate of Education Advanced Level (GCE 'A' level), Rank Point: 86.25

SKILLS

- **Programming languages:** C/C++, Java, Python, SQL
- **Cloud services:** Supabase, Firebase, Google Cloud
- **Web:** HTML, CSS, JavaScript (ReactJS, Nodejs)
- **Tools:** MATLAB, GitHub, Git, Figma

PROJECTS

ReviewLah! (<https://github.com/chiewyx/hfg-webapp>)

Feb 2023 – Feb 2023

- Co-led a team to develop a webapp for Hack for Good 2023
- The webapp provides a platform for individuals to voice opinions and experiences on the accessibility of different locations and aims to help individuals with disabilities better navigate the community.
- ReviewLah! was built using React.js, Node.js, Firebase, and Google Cloud API.

Upcycle – Software Engineering and OOP (CS2113)

Sept 2022 – Nov 2022

- Developed a CLI app for rental managers to manage and track users, items for loan and transactions, utilising Java and OOP concepts.
- Operated in a team using iterative model, with 3 iterations over the span of 5 weeks.

HawkerTown (<https://github.com/chiewyx/hawkerDream>)

May 2022 – Jul 2022

- Collaborated with another student to create a webapp designed to provide a one stop platform for hawkers and suppliers to connect.
- Leveraged technologies including React.js, Supabase for database and Vercel to host the webapp.

Alex Robot – Engineering Principles and Practice II (CG2111A)

Jan 2022 – May 2022

- Co-led a team to design and build a search and rescue robotic vehicle 'Alex' to map out the location it is placed in.
- Leveraged technologies including Arduino Uno and Raspberry Pi to send information between each other to operate the robot and LIDAR to map out its surroundings.

WORK EXPERIENCE

Mind Matters Education Centre, Student Tutor

May 2022 - Present

- Tutored students on various subjects (Mathematics and science) and 90% of students show an improvement of at least 3 grades.

CO-CURRICULAR ACTIVITIES (CCA) AND LEADERSHIP EXPERIENCE

Member, NUS King Edward VII Hall & NUS Recreational Football, Football

Aug 2021 – Present

- Represented KE7 football in NUS Inter-Hall Games 2021

Organising committee member, stARTsmall 2017

Jan 2017 – Dec 2017

- Supervised planning and execution of the carnival component of the project, raising a total of \$5000
- Sourced for external vendors and volunteers to set up and manage several booths for the carnival