

CHIEW YI XIANG

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EDUCATION

National University of Singapore (NUS) **Aug 2021 - Present**
Bachelor of Engineering in Computer Engineering (Honours)
Relevant coursework: Data Structures & Algorithms, Software Engineering & Object-Oriented Programming, Database Systems and Implementation, Computer Networks, Computer Organization, Big Data Systems, Database Applications Design and Tuning

WORK EXPERIENCE

Software Engineering Intern, Central Provident Fund Board **May 2023 – Dec 2023**

- Collaborated with 3 cross functional teams, including end users and UI/UX designers, on CPF's internal portal, and developed Angular pages for critical front end development project.
- Designed and implemented multiple backend services and REST APIs with Spring, optimizing CPF's system performance and functionalities by 30% through caching.
- Performed unit testing with Mockito and JUnit 4, resulting in a 20% improvement in code reliability and ensuring a robust application with 95% test coverage.

PROJECTS

Co-Leader, ReviewLah! **Feb 2023 – Feb 2023**

- Co-led a team to create a webapp for individuals to voice opinions and experiences on accessibility of different locations for Hack for Good 2023.
- Implemented using React.js, Firebase for frontend and database storage, while leveraging on multiple Google Maps API to retrieve and process locations.

Member, 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 using Java and OOP concepts.
- Operated in a team under iterative model, with 3 iterations over a span of 5 weeks.

Co-Leader, HawkerTown **May 2022 – Jul 2022**

- Collaborated with a student to create a dynamic webapp designed to provide a one stop platform for hawkers and suppliers to connect.
- Leveraged technologies including React.js, Supabase for data storage, secure authentication and sign up, Vercel for hosting of webapp.

SKILLS

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- Programming languages: C/C++, Java, Python, SQL, JavaScript, Typescript
 - Framework: ReactJS, Spring Boot, Spring Batch, Angular
 - Tools: GitHub, Git, Figma, RTC, Jenkins, Supabase, Firebase, Google Cloud

CO-CURRICULAR ACTIVITIES AND LEADERSHIP EXPERIENCE

NUS KE7 Hall Football & NUS Recreational Football, Member **August 2021 – Present**

- Represented KE7 football in NUS Inter-Hall Games 2021, competing against 7 other halls.
- Participated in training sessions organized by NUS Recreational Football.