

FREDDY CHEN YOU REN

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EDUCATION

National University of Singapore (NUS)

Aug 2022 - Present

Bachelor of Computing (Hons) in Computer Science

- Expected Date of Graduation: May/June 2026.
- 2nd Major in Management at NUS Business School

Hwa Chong Institution (HCI)

Jan 2020 - Dec 2021

GCE Advanced Level (Science Stream)

- Achieved Distinction (Grade A) for all H1 subjects, H2 Physics, Chemistry, Mathematics, Economics, and H3 Semiconductor & Physics Devices with a Rank Point of 90.

TECHNICAL SKILLS

- **General:** Software Engineering, Software Documentation, Agile Methodology, Microservice, Unit Testing, User Testing, Data Structures and Algorithms, OS, Java, Python, UI/UX Design.
- **Web Development:** HTML5, SCSS, CSS3, ReactJS, JavaScript, TypeScript.
- **Mobile Development:** React Native JS, Firebase Google Cloud Storage.
- **Tools:** Docker, Git, GitHub, SourceTree.
- **Database:** MongoDB, Firebase.

WORK EXPERIENCE

Sparky Animation

May 2024 – Aug 2024

Software Developer – Internal Web Application

- Redesigned 12 major pages of the internal web app responsible for the animation pipeline of Sparky Animation, enhancing the UI and intuitiveness of the web app for smoother UX.
- Refactored codebase, focusing on code readability, maintainability, and Separation of Concerns
- Conducted guided manual user testing for artist users and the main developer team and received positive feedback.
- Documented all modifications and considered methodologies for future developers' reference.

Asindo Karya (Indonesia)

Nov 2020 - Present

Freelance Purchasing (Remote)

- Sourced mostly marine supplies and safety equipment requested by clients at competitive prices from regional suppliers like Singapore, Japan, and South Korea, receiving at least 5 sets of orders monthly.
- Researched and analysed economic activities to short-list potential suppliers and tailor negotiation discussions to generate at least 10 to 15% profitability and up to 40% cost reduction.
- Coordinated with Singapore and Indonesia export and import forwarders to ensure timely delivery of clients' goods, usually within 1 week after order confirmation.
- Communicated with clients, forwarders, and management in a trilingual environment of English, Chinese, and Bahasa Indonesia.

PROJECTS

Project Peerprep – CS3219 Software Engineering Principles and Patterns
Software Engineer

Aug 2024 - Nov 2024

- Collaborated with a team of 5 to develop a role-based Single-Page Application (SPA) for real-time peer programming activity using Microservice and Event-based architecture.
- Facilitated and monitored the overall project direction, with weekly checkpoints and work evaluation.
- Conducted intensive manual testing of the Peerprep app and provided comprehensive reports for developers to debug.
- Experimented and integrated basic Gemini API and tailored it to assist users in their peer programming tasks.

Luminous Zephyr - TikTok TechJam 2024 Hackathon

July 2024

Frontend Developer

- Collaborated with a team of 4 to develop an AI Prompt E-commerce app for TikTok Shops.
- Implemented front-end minimalistic designs of product cards and product filters.
- Ideated and produced the video demonstration of Luminous Zephyr.

Project NUShopLah!

May 2023 – Sep 2023

Full Stack Software Engineer

- Implemented a reward system mobile application in a 2-man project within 2 months.
- Integrated front-end React Native with back-end Google Firebase Cloud Storage.
- Documented detailed software development methodologies in a 120-page document for future developers.
- Awarded 'Advanced' level of achievement for practicing software development principles in an Agile environment.

LEADERSHIP EXPERIENCE

NUS Chinese Orchestra (NUSCO)

Student Leader in Arts

June 2024 - Present

- Facilitated events related to NUSCO visions and missions, such as the Freshman Orientation Programme.
- Coordinated with other major NUS Arts Group Leaders and members for smooth operations.
- Managed production and logistics of concerts, including audio effects and stage plans.

Principal Player (Percussion)

Dec 2022 - Present

- Organized the allocation of up to 9 percussion players for performances.
- Coordinated and conducted regular practices with professional tutors to enhance musical standards of members.
- Managed percussion-related administrative work with NUSCO executive members.
- Contributed to logistical planning of NUSCO at least 2 performances every semester, especially on percussion.

Project "Love Food. Hate Waste." - HCI Entrepreneurial Challenge 2020

Jun 2020 - Oct 2020

Team Leader

- Spearheaded a team of 4 to propose a novel order-tracking mobile application for the school canteen to reduce crowd levels and increase overall efficiency, clinching championship among 66 participating groups and attracting the attention of the School Executive Committee Board to launch the project.
- Organised at least weekly group meetings, setting clear objectives for team progress.
- Brainstormed and delegated roles to members to analysed data from research and interviews to complete relevant proposal details within 3 months.

AWARDS & CERTIFICATES

- "NUS Orbital - Apollo 11 (Advanced)" Software Development Certificate - 2023.
- "Hwa Chong Outstanding Student Award" for 2021 graduating batch.
- "Hwa Chong Diploma Distinction" for 2021 graduating batch.
- Certificate of Distinction, Singapore Youth Festival 2021, Hwa Chong Symphonic Band.
- Honourable Mention in Singapore Mathematics Olympiad 2020.
- Honourable Mention in Singapore Physics League 2021.
- "Yishunite of the Year 2019" – Top student at Yishun Secondary School.
- Gold for NUS Geography Challenge 2019.

ADDITIONAL INFORMATION

- Language: English (Native), Chinese (Native), Bahasa Indonesia (Native), German (Elementary).
- Interests: Strategic Thinking, Artificial Intelligence, Software Engineering, Technopreneurship, Technology, Computer Security.
- Hobbies: Playing drums, listening to music, and learning about trains and general science.