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: July 2026.
- Cumulative GPA: 4.51/5.00.

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.
- Awarded "Hwa Chong Outstanding Student Award".
- Awarded "Hwa Chong Diploma Distinction".
- Honourable Mention in Singapore Physics League 2021.
- Honourable Mention in Singapore Mathematics Olympiad 2020.
- Top 5% ranking in H2 Mathematics, Chemistry, and Physics Promotional Examinations 2020.

TECHNICAL SKILLS

- Programming Languages: Java, JavaScript, Python, HTML, CSS, C (Basic).
- Software Development Frameworks: React Native JS, Google Firebase Cloud Storage, Jest.
- Software Methodologies: Agile methodology.

WORK EXPERIENCE

Asindo Karya (Indonesia)   **Nov 2020 - Present**
Freelance Purchasing (Remote)
- Sourced mostly marine supplies and safety equipment 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 negotiations 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.

GCE Advanced Level Tutor (Self-employed)   **May 2021 - Present**
Freelance Mathematics / Science Tutor
- Crafted personalised explanations to facilitate 2 tutees' learning progress, greatly improving grades from sub-pass (S) to a good pass (A and B) in 3 subjects within 5 months.
- Enlightened 3 tutees with strategies to excel in Singapore GCE Advanced Level.

PROJECTS AND COMPETITIONS

Project VolunteerHub – Google Developer Student Club Hack4Good Hackathon   **Feb 2024**
Full Stack Software Engineer
- Developed a volunteer management mobile application in 2 weeks in a team of 4 for Big At Heart Non-Profit Organization (NPO), closely following Agile Methodology.
- Designed data structures and databases to facilitate writing search query codes.
- Integrated front-end React Native with back-end Google Firebase Cloud Storage to manage data presentation and storage.
- Implemented a PDF Generation feature for volunteers to receive a Certificate of Completion on each activity.

Project NUShopLah!   **May 2023 - Present**
Full Stack Software Engineer
- Implemented a reward system mobile application in a 2-man project within 2 months, closely following Agile Methodology.
- Integrated front-end React Native with back-end Google Firebase Cloud Storage to manage data presentation and storage.
- Documented detailed 120-page software development project documentation for developers.
- Awarded "NUS Orbital - Apollo 11 (Advanced)" Software Development Certificate.

Project ToothTracker – CS2103T Software Engineering Course   Aug 2023 - Nov 2023
Software Engineer
- Collaborated with a team of 5 to develop a desktop dental clinic management application.
- Conducted preliminary analysis of data structures and project trajectory to ensure a manageable workload.
- Conducted intensive manual testing of the ToothTracker app and participated in bug triaging to identify constructive bug reports and rectify legitimate bugs.
- Documented detailed User Guide, Developer Guide and designed Class Diagrams to facilitate understanding of the ToothTracker app.

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 school canteen to reduce crowd levels and increase overall efficiency.
- Clinched championship among 66 participating groups and attracted the School Executive Committee Board to launch project.
- Brainstormed and delegated roles to members to analyse data from research and interviews to complete relevant proposal details within 3 months.

LEADERSHIP AND CO-CURRICULAR ACTIVITIES

NUS Chinese Orchestra (NUSCO)   Dec 2022 - Present
Principal Player (Percussion)
- Organised the allocation of up to 9 percussion players for performances.
- Coordinated and conducted regular sectional practices with professional tutors to ensure high musical proficiencies of members during rehearsals and performances.
- Managed percussion-related administrative work with NUSCO executive members to facilitate timely information dissemination and increase production planning efficiency.
- Contributed to logistical planning of NUSCO at least 2 performances every semester, especially on percussion.

VOLUNTEER EXPERIENCE

Project Evergreen - Habitat for Humanity   Jan 2021 - Aug 2021
Team Leader and Volunteer
- Led a team of 4 in a Community-Involvement Project (CIP) to conceptualize weekly environmental awareness social media posts, specifically in the Singapore context.
- Committed to weekly litter-picking initiatives in residential areas requiring assistance in maintaining cleanliness.

Project Apricus - Chinese Development Assistance Council (CDAC)   Aug 2020 - Oct 2020
Volunteer
- Fostered a dynamic English learning environment for 2 primary school children from less-privileged backgrounds, through captivating storybook narratives, igniting interest in the English language and nurturing critical thinking skills.
- Engaged with at least 3 extension concepts children want to learn, such as animal kingdom and Rubik's Cube.

ADDITIONAL INFORMATION

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