

TEO KAI JIE (KENDRICK)

COMPUTER SCIENCE UNDERGRADUATE @ NTU

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SUMMARY

Computer Science undergraduate at Nanyang Technological University (NTU), Singapore, with a passion for designing thoughtful, impactful digital solutions. Beyond building hands-on projects, I enjoy thinking critically about system design, user experience, and business impact to deliver solutions that are not only functional but also strategic. Experienced in full-stack web development, software engineering, and UI/UX design, with practical skills in HTML/CSS, C#, Node.js, MySQL, and Figma. I am driven by curiosity to explore emerging technologies and continuously refine both my technical and problem-solving abilities, aiming to contribute to solutions that balance innovation, efficiency, and real-world value.

EDUCATION

Bachelor of Computing (Hons) in Computer Science Nanyang Technological University, Singapore	Aug 2024 - 2028
Diploma in Information Technology Singapore Polytechnic <ul style="list-style-type: none">Specialized in Software and Applications	Apr 2019 - May 2022
Cambridge International General Certificate of Secondary Education (IGCSE) Anglo-Chinese School (International)	Jan 2016 - Dec 2018

EXPERIENCE

Administrative Support Assistant <i>Singapore Armed Forces</i> <ul style="list-style-type: none">SAF Pers Hubs' Digital Administrative Instructions (DigiAI) Programming Team:<ul style="list-style-type: none">Developed a QR Code attendance scanning system to streamline check-ins for non-training events, integrating email-generated QR codes for seamless verification.Successfully deployed the system during Total Defence Day, enabling 200+ participants to scan their attendance efficiently.Additional Contributions:<ul style="list-style-type: none">Conducted meticulous data validation to ensure the accuracy and consistency of internal records prior to automation implementation.Reviewed and refined auto-generated documents, identifying and correcting formatting and content inconsistencies to maintain professional standards.Contributed to the enhancement of internal automation tools by updating VBA scripts to incorporate new features and improvements as directed by supervisors, increasing process efficiency and output quality.Provided ongoing user assistance for internal tools, addressing queries and guiding personnel on effective usage.	Dec 2022 - Aug 2024
Web Developer (Freelance) <ul style="list-style-type: none">Collaborated with EcoExchange Pte. Ltd. as part of my Final Year Project at Singapore Polytechnic to enhance the functionality of the company's intranet website.Focused on frontend development, utilizing HTML, CSS, and JavaScript to improve user experience and interface design.	Feb 2022 - Oct 2022

- Worked on various software engineering tools to create, test and improve core components of full-stack technologies, UI/UX Design and Internet of Things (IoT):
 - Skills include Android Application Development (Java), C# App Development, Database Management (MySQL), Appgyver, Node.js servers and Modbus
- Assisted warehouse staff with using new software that helps them with their warehouse needs, as well as debugging systems.

PERSONAL PROJECTS

Minigolf Game (Python)

- Engineered a physics-based minigolf game in Python (pygame), simulating realistic ball movement and interactive obstacles across 10 unique levels.

pySquidGame (Python)

- Designed and implemented a Python game using pygame that recreates challenges from Netflix's 'Squid Game' (Seasons 1 & 2), incorporating real-time player interaction, physics-based mechanics, and win/loss conditions.

Coin Dozer Replica (HTML/CSS/JS)

- Built an interactive coin dozer game using p5.js and matter.js, featuring physics-based coin movement and realistic collision detection.

RActive (Figma)

- Designed and developed a functional Figma prototype to assist individuals with rheumatoid arthritis (RA) in managing daily activities.
- Implemented AI-powered coaching, an exercise logger, dietary management, journaling, and community forums to support RA patients.
- Considered accessibility needs, incorporating enlarged buttons and a one-handed mode for ease of use.
- Created for CC0005 – Healthy Living and Wellbeing at NTU.

TECHNICAL SKILLS

HTML/CSS/JS	MySQL	UI/UX Design
Node.js	C#	Microsoft Word, Excel &
React.js	Java	Powerpoint
Python	Android Development	MongoDB

ADDITIONAL INFORMATION

Languages:

- English (Native)
- Chinese (*B1)
- Japanese (*A2+) (strong kanji vocabulary, grammar in progress)

CEFR estimates:

B1 – Independent User (Threshold)

A2+ – Basic User (High Elementary)

Volunteering Experience:

- Additional Needs Activity Facilitator @ Fifth Ray (2019)

Awards/Activities:

- NTU Inter-Hall Olympiad Games 2025 - Track and Field (2nd Place)
- SOC Director's Honour Roll AY2019/2020 (Singapore Polytechnic)
- Designing Solutions for Youth Needs Hackathon Winner (2019)