<u>Teo</u> Kai Jie (Kendrick)

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EDUCATION

Bachelor of Computing (Honours) in Computer Science

Aug 2024 - Present

Nanyang Technological University, Singapore

• Current CGPA: 4.64/5.00 (Honours - Highest Distinction)

EXPERIENCE

Singapore Armed Forces

Dec 2022 - Aug 2024, *May 2025 - July 2025

Singapor

Administrative Support Assistant (NSF)

Singapore

- Developed and deployed a QR code attendance tracking system for non-training events using EJS, Node.js, and MongoDB, with email-generated QR codes enabling seamless, real-time verification.
 - Reduced check-in time by ~50% for 200+ participants during SAF Pers Hubs' Total Defence Day Event in February 2023.
 - Featured in Army News for contributions to digital transformation as part of the DigiAl Development Team.
- Participated in the development and user testing of Telegram chatbots (Parade State, Events, Pers Node Enquiry)
 - Identified and fixed bugs, improving chatbot stability and reducing user-reported issues by ~80%.
- Enhanced an Excel .xlsm tool using VBA to automate the generation of SAF Pers Hubs' weekly Routine Orders.
 - Added new features, fixed existing bugs, and improved formatting automation in response to evolving unit requirements.
- Contributed to the testing and development of PAL (Personnel Admin Link), a Microsoft PowerApps-based tasking platform for managing manpower assignments across Personnel Nodes (Persondes) in Singapore.
 - Implemented new features and co-developed a mobile-friendly version of the app.
 - Helped reduce bug reports by ~60% through iterative testing and user feedback integration.
- * National Service (NS) was disrupted for full-time studies at NTU from Aug 2024 to May 2025.

Web Developer

Feb 2022 - Oct 2022

Freelance (Pro Bono)

Singapore

- Improved intranet platform functionality and user experience for EcoExchange Pte. Ltd. as part of SP's Final Year Project using HTML/CSS/JS.
- Developed and integrated reusable Next.js profile cards for Autodesk using TypeScript, enhancing component testing workflows and improving UI reliability.
- Reduced technical issues by ~30% and improved interface efficiency by ~50% through targeted front-end optimizations.

Leaptron Engineering Pte. Ltd.

Feb 2021 - Aug 2021

Software Engineer (Internship)

Singapore

- Developed and tested full-stack solutions—including Android apps (Java), C# applications, and Node.js servers—with comprehensive MySQL database design and modeling
 - Improved system responsiveness by ~30% and supporting 20+ staff in digital adoption.
- Designed relational database schemas, applied normalization principles, and optimized queries to ensure data integrity and efficient performance.
- Utilized UI/UX tools and IoT technologies (Appgyver, Modbus) to enhance system functionality, increasing UI feasibility by ~20%.

PROJECTS

CellCollab (React.js, Node.js)

• Built a real-time multiplayer Conway's Game of Life sandbox featuring WebSocket-based room synchronization, live grid updates, and collaborative editing capabilities.

pySquidGame (Python, Pygame)

• Developed an interactive Squid Game-inspired app using object-oriented design, with modular stage architecture, responsive player controls, and animated UI transitions.

Mini Speed Golf (Python, Pygame)

• Developed a 2D minigolf game with realistic physics, collision detection, scoring, and multi-map support.

SKILLS

- Programming Languages: Python, Java, C, C++, C#, JavaScript, TypeScript
- Web Development & Frameworks: HTML, CSS, React.js, Next.js, Node.js
- Databases: MongoDB, MariaDB, MySQL
- Tools & Platforms: Git, GitHub, Heroku, VMWare Workstation Pro, Microsoft Office Suite, Android Studio
- Designing & Prototyping: Figma, Canva