

Teo Kai Jie (Kendrick)

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EDUCATION

Nanyang Technological University

Bachelor of Computing (Honours) in Computer Science

Singapore

Expected July 2028

- CGPA: **4.64/5.00**
- Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, C & C++ Programming

Singapore Polytechnic

Diploma in Information Technology, Final GPA: **3.80/4.00**

Singapore

Mar 2022

EXPERIENCE

Singapore Armed Forces

Administrative Support Assistant (NSF)

Singapore

Dec 2022 – July 2025 (Service Disrupted for NTU Studies)

- Engineered & deployed a **Node.js & EJS** QR code attendance system to automate check-in for **200+ participants** and earning a **feature on Army News** for its operational impact.
- Systematically tested and validated the unit's Telegram chatbots, identifying and reporting critical bugs to enhance system reliability and significantly reduce user-facing issues.
- Thoroughly tested a PowerApps-based manpower tasking application & developed a mobile variant, successfully closing **300+ high-priority cases**.

EcoExchange Pte. Ltd.

Volunteer Web Developer

Singapore

Mar 2022 – May 2022

- Proactively refactored and debugged the internal data submission system (HTML/CSS/JS), ensuring system stability for daily operational workflows.
- Successfully streamlined the data processing workflow, significantly accelerating critical work processes such as report generation and ticket creation within the company's system.

Leaptron Engineering Pte. Ltd.

Software Engineer (Intern)

Singapore

Feb 2021 – Aug 2021

- Developed multi-platform applications using **C# (WinForms)** for advanced features like real-time alarm handling and spatial inventory visualization.
- Engineered and developed **Android (Java)** QR scanning tools to streamline logistical data collection.
- Optimized **Node.js** servers and refined **MySQL Databases** to streamline warehouse workflows for 20+ staff.
- Engineered and deployed a warehouse application using a rapid development platform (AppGyver), seamlessly integrating with existing **Node.js** servers to automate key reporting and workflow processes.

PROJECTS

CellCollab (Personal Project) | React.js, Node.js, Heroku

- Engineered a live multiplayer Conway's Game of Life sandbox with real-time concurrent editing & simultaneous data synchronisation using Socket.IO room-based channels.

pySquidGame (Personal Project) | Python, Pygame

- Designed a game using OOD principles and a custom impulse-based physics engine for collision dynamics.

Astertris (Personal Project) | Java 2D, Java Swing

- Engineered a radial gravity Tetris variant using OOD principles, leveraging 2D Matrices and Queues for deterministic generation logic.

SKILLS

- **Languages:** JavaScript, HTML/CSS, Python, Java, TypeScript, SQL, C#, C++
- **Frameworks:** Node.js, Express.js, React.js, Next.js, Bootstrap, Android SDK
- **Databases:** PostgreSQL, MySQL, MariaDB, MongoDB
- **DevOps:** Heroku, Git, GitHub