

# Teo Kai Jie (Kendrick)

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## EDUCATION

### Nanyang Technological University

Expected Jul 2028

Bachelor of Computing (Honours) in Computer Science

Singapore

- **Current GPA: 4.64/5.00** (Highest Distinction)

### Singapore Polytechnic

Mar 2022

Diploma in Information Technology

Singapore

- **Final GPA: 3.80/4.00**

## EXPERIENCE

### Singapore Armed Forces

Dec 2022 – Aug 2024, May 2025 – Jul 2025

Software Engineer (NSF)

Singapore

- 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, boosting system reliability and reducing user-facing issues by ~80% compared to pre-testing periods.
- Developed a mobile variant of a manpower tasking application using PowerApps and validated the core system reliability, successfully closing 300+ high-priority cases.

### EcoExchange Pte. Ltd.

Oct 2021 – May 2022

Frontend Developer (Final Year Project, Singapore Polytechnic)

Singapore

- Spearheaded the frontend development efforts and provided technical guidance to 2 developers to successfully deploy the company's intranet (**HTML5/CSS/JS**).
- Engineered the core digital workflow, successfully migrating the client from a paper-based process and enabling the system to track and process 700+ critical operational tickets.

### Leaptron Engineering Pte. Ltd.

Feb 2021 – Aug 2021

Software Engineer (Intern)

Singapore

- Enabled real-time operational oversight by developing **C# (WinForms)** applications with live alarm handling and spatial inventory visualization.
- Deployed an **Android (Java)** QR scanning tool, replacing manual data entry and reducing logistical errors.
- Developed and deployed the backend logic from scratch using **MySQL** stored procedures and **Node.js**, enabling accurate inventory tracking for the warehouse operations team.
- Reduced manual staff workload by ~25% by deploying a low-code (AppGyver) warehouse application that automated key reporting and workflow processes.

## PROJECTS

### CellCollab | Website | Source Code

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 | Source Code

Python | Pygame

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

### Astertris | Source Code

Java 2D | Java Swing

- Engineered a Tetris game with radial gravity, leveraging 2D Matrices & Queues for deterministic generation logic.

## SKILLS

- **Languages:** JavaScript, HTML5, CSS, Python, Java, TypeScript, SQL, C#, C++
- **Frameworks:** Node.js, Express.js, React.js, Next.js, Bootstrap, Android SDK
- **Databases:** PostgreSQL, MySQL, MariaDB, MongoDB
- **Deployment:** Heroku, Git, GitHub