

# Toh Yan Hui

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## EDUCATION

### National University of Singapore

Aug 2024 – Present

*Bachelor of Computing (Honors) in Computer Science*

- **CAP:** 4.71/5.00 (First Class Honors)
- **Intended specialisations:** Software Engineering, Artificial Intelligence

## PROJECTS

### Momo – Task Manager with GUI Optimized for CLI

Aug 2025 – Sep 2025

**Tech Stack:** Java, JavaFX, CSS, Gradle

- Developed a task manager to manage todos, deadlines, and events with a GUI optimized for command-line style interactions.
- Implemented core features including add, mark, unmark, delete, list, and find tasks with persistent storage.
- Enhanced user experience with color-coded responses and a built-in help command.
- Managed project builds and dependencies with Gradle.

### TokTok – Automated Online Review Classifier (TikTok TechJam 2025)

Aug 2025 – Aug 2025

**Tech Stack:** Python, PyTorch, Hugging Face, Pandas, Scikit-learn, Streamlit, Google Colab

- Collaborated with 4 teammates to develop an automated review classifier detecting Advertisement, Irrelevant Content, and Rant Without Visit, using PyTorch in Google Colab.
- Designed a data preprocessing and feature engineering pipeline including lowercasing, lemmatization, punctuation removal, stop word removal, and sentiment analysis.
- Combined rule-based checks with LLM-assisted labeling and fine-tuned a DeBERTa model for sequence classification.
- Applied class balancing, oversampling, and custom loss and regularization techniques to handle data imbalance and improve model robustness.
- Built a Streamlit prototype for easy review input, classification, and results visualization.

### LinkedPair – AI-Powered Matchmaking App

May 2025 – Aug 2025

**Tech Stack:** React Native, JavaScript, Firebase, OpenAI API, Expo

- Collaborated with 1 teammate to develop a mobile app featuring AI buddy & romantic matching, geolocation-based matching, and advanced filters.
- Integrated Firebase services: Authentication for sign-in, Firestore Database for user data, and Storage for profile images.
- Leveraged OpenAI API to generate personalized profile descriptions and AI compatibility scores.
- Designed intuitive signup, chat, and matching screens, ensuring a seamless user experience.
- Built the app using Expo to optimize development and deployment across Android and iOS platforms.

## WORK EXPERIENCE

### Singapore Armed Forces

Dec 2022 – Jun 2024

*Supply Assistant*

- Managed inventories of military equipment to ensure operational readiness and safety of over 100 soldiers.
- Trained and mentored junior supply assistants, fostering a skilled and reliable team.
- Developed strong attention to detail, sense of responsibility and leadership skills.

## ADDITIONAL INFORMATION

**Languages:** Fluent in English and Mandarin Chinese

**Technical Skills:** Proficient in Microsoft Office applications (e.g. Microsoft Word, Excel, PowerPoint)

**Programming and Software Development:** Java, JavaScript, Python, HTML, CSS, React Native, SQL

**Interests:** Gaming, singing, swimming and playing the piano