

# NIGEL TEO

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## EDUCATION

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### National University of Singapore (NUS)

Aug 2021 - Dec 2025

Bachelor of Computing in Computer Science

- **Focus Areas:** Artificial Intelligence, Networking and Distributed Systems

### Tembusu College

Aug 2021 - Apr 2024

- The Ngee Ann Kongsi Residential College Scholarship (AY23/24)

## TECHNICAL SKILLS

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- **Languages:** Python, Java, JavaScript, TypeScript, C#, SQL, HTML/CSS
- **Frameworks & Libraries:** React.js, Astro, Tailwind CSS, PyTorch, pandas, .NET
- **AI / Data:** LLM applications, LangSmith, agentic workflows, analytics tooling
- **Developer Tools & Platforms:** Microsoft Azure, Azure DevOps, Docker, Git, Postman, Figma
- **Databases:** MS SQL Server, PostgreSQL, Prisma
- **Visualization:** Microsoft Power BI

## WORK EXPERIENCE

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### AI Data Engineer Trainee | Grab

Jan 2026 - PRESENT

- Built Python-based features for an internal LLM-powered data agent that enabled self-serve analytics for high-effort workflows, including metric reporting, data investigation, and root cause analysis.
- Developed Model Context Protocol (MCP) server capabilities to expose internal data tools to the agent, improving its ability to retrieve, process, and operationalize data for 400+ internal users.
- Improved and fixed underlying backend services supporting the data agent, strengthening platform reliability, maintainability, and overall system performance.
- Used LangSmith to trace, evaluate, and optimize LLM workflows, improving observability, debugging efficiency, and iteration speed for production-oriented AI features.

### Enterprise Application & Engineering Intern (Developer) | KPMG

Feb 2025 - Jul 2025

- Developed and maintained enterprise middleware using .NET (C#) and MS SQL, supporting internal application functionality and business workflows.
- Azure DevOps CI/CD pipelines to streamline deployment and improve delivery consistency across environments.
- Gained hands-on experience across the software development life cycle (SDLC), from development and testing to deployment and maintenance of commercial applications.

### Software Engineering Intern | Synapxe

Jan 2024 - Jun 2024

- Developed a full-stack admin dashboard feature for the Healthier SG program that reduced L2-L3 escalations by an estimated 90%, cutting average issue resolution time from 20+ minutes to under 5 minutes.
- Authored technical documentation, including sequence diagrams and implementation guides, to support long-term maintainability and knowledge transfer.
- Shipped production-ready features through agile sprints, using Azure DevOps to support delivery workflows and CI/CD processes.

### Web Developer Intern | Cognitiv Pte Ltd

Dec 2021 - Jan 2022

- Collaborated with a cross-functional team to implement frontend changes based on design and product specifications.
- Designed wireframes and visual themes to improve UI consistency and standardize user experience across the platform.

## PROJECTS

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### Learning Buddy – AI-Powered Chrome Extension

Oct 2025

*Google Chrome Built-in AI Challenge 2025*

- Independently developed a privacy-first Chrome extension that transformed highlighted text into instant explanations and revision quizzes.
- Integrated Gemini Nano through Chrome's experimental built-in AI APIs to enable local, on-device inference, reducing reliance on external model calls.
- Designed the extension to turn passive reading into active learning, emphasizing accessibility, speed, and low-friction study support.

### EcoPantry – Sustainable Kitchen Assistant

Jun 2025

*Lifehack 2025 Hackathon*

- Developed a full-stack web application to reduce food waste by tracking pantry inventory, suggesting recipes, and streamlining shopping list creation.
- Built product features focused on practical household sustainability, combining usability with everyday decision support.

### AI Job Recommender

Oct 2024 – Jan 2025

*Natural Language Processing (Module)*

- Built a scalable AI-powered job recommendation system that matched uploaded resumes to relevant job opportunities using a Two-Tower Embedding Model and contrastive learning.
- Implemented FAISS-based vector indexing and cosine similarity retrieval to enable efficient ranking and fast semantic matching between resumes and job descriptions.

## LEADERSHIP & EXTRACURRICULARS

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### Website Developer | NUS Seafarers

Aug 2024 – Dec 2025

- Led the end-to-end redevelopment of the club's official website, migrating from a legacy Jekyll setup to a modern stack using Astro, React, and Tailwind CSS.
- Partnered with club leadership to define requirements, structure content, and launch a production-ready site supporting the organization's official formation and member outreach.
- Built a responsive and accessible user interface optimized for both desktop and mobile users.

### Publicity Director | NUS Rovers

Jan 2024 – Dec 2024

- Executed a multi-channel digital outreach strategy that grew the club's online community by 23% on Telegram (+435) and 10% on Instagram (+293) within one year.
- Led promotional campaigns that converted audience engagement into participation, directly contributing to the recruitment of 141 new members.

### Tancho House Captain | Tembusu College

Sep 2022 – Apr 2023

- Led a team of 10 to plan and execute weekly community events for 200+ residents, improving coordination through structured check-ins and clearer delegation.
- Planned and delivered a flagship BBQ event that achieved 50%+ participation and engaged 100+ attendees.

### TStudios Head | Tembusu College

Jan 2022 – Dec 2023

- Coordinated photography-related initiatives, including film walks and event coverage, to increase resident engagement in college arts activities.
- Managed the loaning and upkeep of camera equipment valued at \$5,000+, ensuring proper usage and accountability.
- Mentored volunteers covering college events, improving event documentation quality and consistency.

## INTERESTS

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- Photography, Floorball, Travelling