

Lee Zong Han

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EDUCATION

- Nanyang Technological University (NTU)**
Bachelor of Engineering (Electrical and Electronic Engineering) with Honours (Distinction)
Courses: Data Structure and Algorithms, Cryptography. **Hall Teams:** Cross country, Swimming, Water Polo. **University Wide:** Aquathlon (Captain), National Vertical Marathon (Event Planner).
- Singapore, Singapore
Aug 2017 - Jun 2021

CERTIFICATES

- MongoDB Associate Developer Certificate**
MongoDB
Developed expertise in MongoDB database development, encompassing data modelling, CRUD operations, indexing, aggregation, and performance optimisation. These skills enable the creation of efficient, scalable, and data-driven applications.
 - FlexiMasters in Business and Financial Analytics**
Nanyang Technological University
Gained skills in artificial intelligence, design thinking, and fintech. This blend allows me to create user-centric, data-driven software solutions, particularly in financial applications.
- Singapore, Singapore
Jan 2025 - Jan 2025

Singapore, Singapore
Mar 2024 - Aug 2024

EXPERIENCE

- Embed Financial Group Holdings**
Software Engineer
 - Full Stack Development:** Building products to support the underinsured and underprivileged
 - Capata Private Limited**
Software Engineer
 - New Business Initiative:** Provided technical expertise in starting up a new venture, wholly owned by TransAsia Private Capital Limited.
 - Business Requirements:** Led requirements gathering and defined the business logic, aligning with business objectives. Collaborated with the CTO to decide platform requirements.
 - Product Management:** Translated business requirements to technical language for the offshore development team.
 - Data Modelling:** Designed the NoSQL database to handle scalable, client relationship management and real-time supply chain financing data.
 - TransAsia Private Capital Limited**
Software Engineer
 - Feature Specification:** Spearheaded requirements gathering and defined the Minimum Viable Product scope for a new investment management platform, in alignment with business objectives. Developed product saved the fund USD300k per annum.
 - System Architecture:** Established the platform's tech stack and core architecture, leveraging JavaScript, ReactJS, Node.js, MongoDB, and Docker. Deployed platform on the cloud, increasing scalability and reliability.
 - Asynchronous Trade Booking:** Built an asynchronous trade management system, reducing trade booking time by more than 90% through automated fund allocation. Users can make concurrent read and writes while maintaining data version integrity and consistency.
 - Real-time Reporting Services:** Developed services that integrate with REST APIs to generate real-time reports to serve investor relations, operations and auditing functions. Reduced average report delivery time from 2h to seconds.
 - User Acceptance Testing:** Collaborated closely with middle office operations to identify, prioritise, and resolve UAT issues. Improved user experience by iteratively refining workflows based on feedback, resulting in smoother operations.
 - Micron Semiconductor Asia Pte Ltd**
Data Analyst
 - Data Analytics:** Successfully applied data analysis techniques to evaluate experimental data and resolve data exceptions, resulting in a significant improvement in yield outcomes. Led multiple analysis projects to discover potential yield gains totaling to \$150,000/week.
 - Multivariate Testing:** Conducted research through planning and execution of multivariate experiments to solve product failures, leading to a saving of \$80,000/week.
 - Automation:** Scripted SQL queries with python to regularly distribute scheduled dashboards to stakeholders.
 - HSL Constructor Pte Ltd**
Project Engineer
 - Client Coordination and Collaboration:** Liaised with multiple internal and external stakeholders to retrieve business operation, engineering and regulatory requirements.
 - Project Management:** Optimised project planning, leading to completion of construction and commissioning of 5 substations 2 months before target. Reduced project expenditure by \$140,000.
- Singapore, Singapore
Mar 2025 - Present

Singapore, Singapore
Sep 2024 - Mar 2025

Singapore, Singapore
May 2023 - Mar 2025

Singapore, Singapore
Jul 2022 - Feb 2023

Singapore, Singapore
Jun 2021 - Jul 2022

- **New Vertical Partnerships:** Worked the CEO on the special projects team to study a vertical farming business, valued at \$8 million, and delivered a feasibility study to assist board members and investors in joint-venture decision-making.
- **Singapore Armed Forces** Singapore, Singapore
Commando Officer Jul 2015 - May 2017
 - **Leadership:** Led a detachment of 14 men through over 10 missions, achieving the REDCON 1 status at the Army evaluation.

NOTABLE PROJECTS

- **AI-enabled Email Client SaaS Product (TypeScript, Next.js, PostgreSQL, Stripe, OpenAI):** A full-stack web application. Aggregates email from multiple providers in a web client. Features (1) a RAG chat-bot which interacts using context from emails, (2) AI auto-compose for replies and new emails, (3) Stripe integration for subscription to pro features.
- **Investment Management Platform (JavaScript, React, Node.js, Express.js, MongoDB):** A full-stack web application. Manages portfolio funds and provides loan administration. Features (1) an asynchronous trade management system, (2) API endpoints which deliver client and operations reports.

OTHER EXPERIENCES

- **Honour Graduate, 70/15 Cohort, Commando Training Institute:** As part of 2-year mandatory military service in Singapore, finished top 10% of 70/15 Commando Small-unit Leaders Course. Performance judged by character, leadership, knowledge, physical and mental abilities. Selected for Officer Cadet School and commissioned. Served as a paratrooper and detachment commander in the 1st Commando Battalion. (July '15-17)
- **Silver Medalist, Rowing, 28th Southeast Asian Games:** Represented Singapore at the Southeast Asian Games in 2015. Runner-up in the Lightweight Men's Four 1000m. (May '15)

SKILLS SUMMARY

- **Coding Languages:** JavaScript, TypeScript, Python
- **Tech Stack:** React, Next.js, Express.js, Node.js, MongoDB, PostgreSQL, Docker
- **Integrations:** Stripe, OpenAI
- **Soft Skills:** Adaptability, Problem Solving, Initiative, Leadership, Strategic Thinking
- **Spoken Languages:** English (Native), Mandarin (Native)