

Lee Su Kiat Sean

HP: 9071 6345 | Email: seanleesukiat@gmail.com | [Personal Website](#) | [Github](#) | [LinkedIn](#)

Education

National University of Singapore <i>Bachelor of Engineering in Computer Engineering</i>	Aug 2024 - present
Eunoia Junior College	Jan 2020 – Dec 2021
Catholic High School	Jan 2016 – Dec 2019

Experience

PSA - AI Engineer	May 2026 – Aug 2026
Developed the product operations agent into live use by duty officers, building the SOP and case log ingestion pipeline plus database and log query tools; prototyped a second agent to refresh a 350+ article knowledge base.	
A*STAR Advanced Remanufacturing and Technology Centre - AI Research Engineer	Feb 2026 – May 2026
Developed and evaluated context-aware, user-centric capabilities within a multi-agent AI platform, focusing on adaptive intelligence and intelligent agent coordination.	
GoldJewel Pte. Ltd. - Software Engineer	Jun 2025 – Aug 2025
Built and deployed a modern jewellery website with a custom CMS, featuring real-time updates, intuitive product management, image cropping, intuitive homepage and interfaces, and mobile optimization.	
Oxley Pawnshop - Software Engineer	May 2025 – Jun 2025
Designed and launched a modern website for a Singapore pawnshop as a solo intern, featuring email-integrated contact form with automated replies, real-time gold price updates, and configured company email accounts.	
Yoga Movement - Front Desk & Data Analyst	Dec 2023 - Present
Analysed participation trends to improve class scheduling and engagement, and provided customer support while fostering a positive and welcoming environment.	
Singapore Armed Forces	Jan 2022 – Nov 2023
<i>National Service – Signal Specialist in 10C4I Battalion</i>	

Projects

Hack&Roll 2026 - Machine Learning, Fullstack Development	Jan 2026
Part of a team that built an AI-powered desktop assistant that uses GPT-4o vision to capture and analyse the user's screen, providing real-time step-by-step guidance for any software with automatic step-completion detection.	
NUS Fintech Summit 2026 - Fullstack Development	Jan 2026
Part of a team that built a payments platform on the XRP Ledger, unifying instant transfers, escrow, asset tokenization, and RLUSD stablecoin integration with on-chain DID identity verification for compliance.	
PSA Code Sprint - Machine Learning, Fullstack Development <i>(3rd Runner Up out of 400+ teams)</i>	Oct 2025
Part of a team of 4 that developed an AI diagnostic assistant with ticket management for PSA, automating Level 2 support by analysing alerts, correlating evidence, and generating root-cause insights.	
SUTD What the Hack - Fullstack development	Sep 2025
Part of a team of 5 to build a web-app platform for seniors, featuring real-time interactive AI avatar companionship, hobby discovery hub, and a safe social media network, to enhance mental health, life fulfilment and connectivity.	
SentinelAI - Machine Learning, Fullstack Development	Aug 2025 – Sep 2025
Part of a team of 5 to develop an AI-powered system that transforms IP cameras into real-time anomaly detectors for falls, emergencies, and safety hazards, with use cases in elderly care, pet monitoring, and industrial safety.	
NUS Lifehack - Mobile App Development <i>(Finalist – Top 10 of 60+ teams, Most Impressive Usage of Data, Best Team for Theme 1)</i>	July 2025
Part of a team of 5 to build an AI-powered app that integrates real-time Singapore health data, GPT-based health guidance, and community reporting to create a crowdsourced public health monitoring and education platform.	
DSTA BrainHack CODE_EXP - Mobile App Development <i>(Finalist – Top 20 of 80+ teams)</i>	June 2025
Part of a team of 5 to develop an AI-powered mobile app that helps users detect, understand, and prevent online scams. It offers real-time URL analysis, educational content, scam analytics, and a community forum.	

NUS Orbital 2025 - Mobile App Development**May 2025 – Aug 2025**

- Co-developed a cross-platform fitness app featuring real-time workout tracking, YouTube integration, science-based calorie calculations, social networking, analytics, muscle recovery modelling, and personalized recommendations.

GeeksHacking Hackomania (Interledger: Quitting Addiction Together) - Web App Development**Feb 2025**

- Part of a team of five in building a full-stack web application for a donation-based support platform enabling micro-donations through the integration of Open Payments API to assist individuals overcoming addiction with motivation.

SMF & NUS Maritime Hackathon - Machine Learning**Jan 2025***(Called for Top 3, final rank undetermined)*

- Part of a team of four that developed a machine learning model classifying ship repair severity from textual annotations, achieving over 90% accuracy on a dataset of 10,000+ ship records.

Clubs & Societies

NUS Google Developer Club**Aug 2025 - Present***Associate*

- Drove community growth at NUS Developer Group by leading events, workshops and hackathons that empower students to learn, share and build together

Technical Skills

- **Languages:** Python, TypeScript/JavaScript, Java, C/C++, SQL
- **AI & ML:** LLM agent systems, RAG pipelines, multi-agent orchestration, OpenAI API (GPT-4o vision)
- **Web & Backend:** React, Next.js, Node.js, REST APIs, PostgreSQL
- **Data & Infrastructure:** PostgreSQL, Redis, Neo4j, Qdrant, Kafka, Docker, Azure, Git, CI/CD
- **Embedded & Hardware:** Arduino, Raspberry Pi, FPGA (Vivado)