

# Lee Su Kiat Sean

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## Education

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

## Experience

<b>GoldJewel Pte. Ltd.</b> <i>Software Engineer</i>	<b>Jun 2025 – Aug 2025</b>
• 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.	
<b>Oxley Pawnshop</b> <i>Software Engineer</i>	<b>May 2025 – Jun 2025</b>
• 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.	
<b>Yoga Movement</b> <i>Front Desk &amp; Data Analyst</i>	<b>Dec 2023 - Present</b>
• Analysed participation trends to improve class scheduling and engagement, and provided customer support while fostering a positive and welcoming environment.	
<b>Singapore Armed Forces</b> <i>National Service – Signal Specialist in 10C4I Battalion</i>	<b>Jan 2022 – Nov 2023</b>

## Projects

<b>PSA Code Sprint</b> ( <i>3<sup>rd</sup> Runner Up out of 400+ teams, Best Team for Theme 2</i> ) <i>Machine Learning, Fullstack Development</i>	<b>Oct 2025</b>
• 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.	
<b>SUTD What the Hack</b> <i>Fullstack development</i>	<b>Sep 2025</b>
• 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.	
<b>SentinelAI</b> ( <i>Submission for NUS SoC VIP Grant &amp; IDP IDEATE Hackathon</i> ) <i>Machine Learning, Fullstack Development</i>	<b>Aug 2025 – Sep 2025</b>
• 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.	
• While our project didn't advance, we reflected on scalability, long-term differentiation, and safety challenges. We noted overlaps with existing solutions, deriving strategic insights on innovation focus, product-market fit and long-term sustainability.	
<b>NUS Lifehack</b> ( <i>Finalist – Top 10 of 60+ teams, Most Impressive Usage of Data, Best Team for Theme 1</i> ) <i>Mobile App Development</i>	<b>July 2025</b>
• 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.	
<b>DSTA BrainHack CODE_EXP</b> ( <i>Finalist – Top 20 of 80+ teams</i> ) <i>Mobile App Development</i>	<b>June 2025</b>
• 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.	
<b>NUS Orbital 2025</b> <i>Mobile App Development</i>	<b>May 2025 – Aug 2025</b>
• 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)

Feb 2025

### Web App Development

- 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 (*Called for Top 3, final rank undetermined*)

Jan 2025

### Machine Learning

- 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.

## Technical Skills

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- Programming Languages:** Proficient in C and C++, Java and Python with hands-on experience in software development, data structures, and algorithm implementation
- Embedded Systems & Digital Design:** Experienced in embedded programming on Arduino and Raspberry Pi; proficient in FPGA design and development using Vivado
- Networking & Communication Protocols:** Familiar with network protocols and data interfacing principles
- Circuit Analysis & Sensor Calibration:** Strong foundation in AC/DC circuit analysis and sensor integration and calibration
- CAD & Design Tools:** Competent in using AutoCAD Fusion for design and prototyping
- Data Analysis:** Skilled in using Excel and Radiant for data cleaning, visualization, and exploratory analysis
- Cisco Certified Network Associate (CCNA):** Earned during tenure as a Signal Specialist; demonstrates foundational knowledge in the installation, operation, and verification of Cisco networks and core networking concepts