

JOSHUA NEE

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EDUCATION

National University of Singapore, BEng (Computer Engineering)

Aug 2021 – Jan 2025

- Honours (Highest Distinction), GPA: 4.86 / 5.0
- Course Work: Programming Methodology (A+), Data Structures and Algorithms (A), Software Engineering & OOP (A-), Introduction to Artificial Intelligence (A+), Introduction to Machine Learning (A), CEG Capstone Project (A+)
- NUS Overseas Colleges (NOC) New York, Top 5% of Academic Year 2023/2024 Semester 2 & Academic Year 2024/2025 Semester 1 (Deans' List)

WORK EXPERIENCE

Shopee, Software Engineer (Singapore)

Jan 2025 – Present

- Backend Engineer, Marketplace Buyer, Buyer Order Payment

Aggregate Asset Management, Software Engineer (Singapore)

Aug 2024 – Nov 2024

- Conduct in-depth research and development of multiple trading strategies, analyzing market trends, back testing models, and optimizing strategies for risk management and profitability.

National University of Singapore, Teaching Assistant (Singapore)

Aug 2022 – Nov 2024

- Conducted tutorials for over 60 students across multiple modules, including [Data Structures and Algorithms](#), [Software Engineering & Object-Oriented Programming](#), and [Introduction to Machine Learning](#); responsibilities included designing course materials, creating and presenting tutorial content, and weekly consultation services.
- Mentored 24 student teams across 2 iterations of [self-directed software development projects](#), specializing in Unity game development, Telegram bot creation, and web application development, resulting in 17 teams achieving Apollo 11 (Advanced) level and 7 teams attaining Gemini (Intermediate) level.

ST Engineering, Software Engineer (Singapore)

May 2024 – Aug 2024

- Developed and maintained 11 XR applications in Swift and VisionOS for Apple Vision Pro, such as user authentication, interactive scenes, and remote monitoring.
- Unified various application capabilities into a cohesive solution, providing strategic insights and enhancing the company's readiness for leveraging Apple Vision Pro in future projects.

InTune Auto, Software Engineer (New York)

Dec 2022 – Dec 2023

- Engineered and deployed 9 major projects, including digital authorization, automated reminders, appointment scheduling, Twilio SMS/Gmail integration, EC2 image attachments, and OpenAI utilization.
- Revamped testing infrastructure, fixing over 50% of broken Cypress frontend tests and achieving over 90% coverage of backend endpoints with JUnit tests.
- Leveraged technologies like Heroku, Netlify, DataDog, AWS (ECR, ECS), and Docker, and coded in TypeScript, React, Jersey, jOOQ, and PostgreSQL.

Solutions16, Software Engineer (Singapore)

Sep 2022 – Jan 2023

- Devised an end-to-end monitoring system using MosquittoMQTT, DigitalOcean, LilyGO SIM7600, and ESP32, integrated with Blynk and MongoDB to collect over 200,000 data points.
- Implemented just-in-time alerts for WhatsApp and Telegram via Meta for Developers and BotFather, successfully averting 2 instances of severe property damage from pump room leaks.
- Automated email notifications using the Blynk IoT platform, eliminating manual 8-hour updates.

PROJECTS & HACKATHONS

Blockchain – [ETHGlobal Bangkok](#) & [ETHGlobal Singapore](#)

Sep 2024 – Nov 2024

- Won 3rd place among 309 projects in Worldcoin's Best Use of World ID track at ETHGlobal Singapore by developing ZkScholar, a decentralized app for private financial aid applications using zk-SNARKs, collaborating in a team of three.
- Secured runner-up in the Real-World Impact: Best Social Good Application track on Polygon at ETHGlobal Bangkok, competing against 2,750+ developers, with DocuEarn, a privacy-focused dApp enabling passive income from health data using zero-knowledge proofs.