

Sanjean Chrysharnthan

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Education

Nanyang Technological University

Bachelor of Engineering in Computer Engineering

Aug. 2024 – May 2028

Singapore

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Linear Algebra
- Statistics & Probability
- Software Engineering
- OO Programming
- Computer Networks
- Computer Architecture

Experience

Rohde & Schwarz Asia

Software Development Intern

May 2025 – July 2025

Singapore

- Built Python-based data analysis pipelines using Pandas and NumPy, supporting internal analytics workflows for teams.
- Improved systems efficiency by 30% by applying statistical analysis and data visualisation to optimise workflows.
- Worked with cross-functional stakeholders (engineering, product) to gather requirements and deploy user-facing features.

Empire Code

Freelance Coding & Robotics Instructor

May 2024 – May 2025

Singapore

- Developed and delivered engaging lessons in coding to a school class of 38 students as an MOE registered instructor.
- Taught weekly coding and robotics classes of 10 through interactive gameplay and project-based learning.
- Fostered a collaborative learning environment, strengthening teamwork and problem-solving skills.

Projects

HarvestChain | React, Tailwind CSS, Vite, Flask, Python, MongoDB, XRPL, Solidity, MetaMask

Oct 2025

- Secured Global 5th placement at the APRU x Google Tech Policy Hackathon 2025 for developing a blockchain platform.
- Integrated Self-Sovereign Identity (SSI) for secure, blockchain-backed credentialing to enable data-driven credit access.
- Proposed and designed micro-futures smart contracts in Solidity to enable fair fish price locking for fisherfolk in towns.
- Reduced income volatility and middleman exploitation while showcasing blockchain's potential for financial equity.
- Partnered with a 5-member multidisciplinary team to deliver an interactive demo proof of concept demonstration.

PRISM | React, Node.js, Express, TypeScript, WebSocket/Socket.IO

Nov 2025

- Earned **2nd placing** at the HacX 2025 hackathon organised by HTX and Microsoft for retrofitting SPS's prison vehicles.
- Engineered a full stack prison transport management system enabling real-time inmate and vehicle telematics monitoring.
- Initiated and architected real-time data synchronisation with inspections and audit logging across 15+ API endpoints.
- Coordinated with cross-functional teammates to ship an interactive demo showcasing edge computing's potential for real-time vehicle monitoring and inmate safety in correctional transport scenarios.

International Quant Championship (WorldQuant) 2025 | Alpha Modelling

May 2025

- Ranked in Top 20% & Gold Award globally by delivering 10,000 points from engineering & back testing alphas on BRAIN.
- Optimised alpha signals through iterative testing of decay, neutralisation and risk constraints to enhance Sharpe ratio.

Technical Skills

Languages: Python, Java, C, C#, C++, HTML, CSS, JavaScript, TypeScript, Solidity, Verilog, Assembly

Technologies/Frameworks: Git, GitHub, Pandas, NumPy, Hardhat, Next, Flutter, Dart, React, Node, Express

Leadership

Hall 10 Transition Orientation Programme Main Committee 26/27

Sept 2025 – Present

Financial Controller

NTU

- Managed \$10,000 programme budget as Financial Controller for a 200-participant hall orientation.
- Introduced and maintained budget tracking spreadsheets to monitor real time spending ensuring timely reimbursements.
- Enforced compliance with hall and university financial guidelines, ensuring transparent and accountable spending.
- Liaised with vendors, sub-committee heads and school management to control costs and approve reimbursements.

NTU Outdoor Adventure Club Main Committee

Aug 2025 – Present

Special Projects Officer (FOOT)

NTU

- Led an 18-member project team to plan and execute overseas hiking and outdoor expeditions.
- Heading the organisation of a large-scale overseas camp for 40+ NTU participants, overseeing programme coordination.
- Coordinated sub-teams to manage risk assessments, route planning, budgeting and participant engagement for activities.
- Acted as key liaison with external partners and internal stakeholders to ensure smooth execution of overseas programmes.