

NICKY HO

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EDUCATION

Singapore University of Technology and Design

Bachelor of Engineering (Major in Computer Science and Design, Software Engineering and Data Analytics, Minor in Artificial Intelligence)

Awards: SgIS Scholarship, Singtel Information System Award (2025), Ngee Ann Kongsi Bursary Award

Sep 2023 – May 2027

Uppsala University

Spring Overseas Exchange (Computer Science, Human-Computer Interaction, AI Ethics)

Jan 2026 – Jun 2026

Singapore Polytechnic

Diploma in Electrical and Electronic Engineering (Specialisation in Aerospace Electronics)

Awards: Tan Kah Kee Young Inventors' Award (Participant), COLOURS Award

Apr 2018 – Apr 2021

EXPERIENCE

Toppan Ecquaria | Software Engineer Intern

- Optimized database performance by refactoring inefficient JPA queries and adding indexes, reducing query execution time by ~30% and improving system responsiveness across multiple services.
- Redesigned frontend architecture in React + Material-UI, fixing pagination and state synchronization issues that previously caused lag, cutting data table load times by ~40% for enterprise-scale views.
- Collaborated with senior engineers on core system modules within the ICA iSmart platform, contributing to feature rollouts, UAT, production troubleshooting, and Change Request (CR) analysis for microservice deployments.
- Wrote BDD-driven integration tests, improving automated test reliability by 25% and cutting manual QA time by half.

Sep 2025 – Dec 2025

Apple | Sales Specialist

- Delivered exceptional customer service, enhancing customer satisfaction and loyalty while maintaining impeccable store presentation standards.
- Led product demo sessions for 20+ customers daily, simplifying complex tech concepts and driving 15% accessory up-sell growth.

Sep 2023 – May 2024

Singapore Technologies Aerospace | Aerospace Engineering Intern

- Played a pivotal role in aircraft maintenance projects, focusing on system diagnostics and repair.
- Digitized energy audit logs and maintenance data for 3 hangar bays, improving data retrieval efficiency by 40%.

Mar 2020 – Aug 2020

PROJECTS

Bloom – Hotel Booking Platform (SUTD)

React, Typescript, Node.js, Express, mySQL, Docker, Stripe

- Built and deployed a responsive hotel booking web app with user authentication, search filtering, reservation management, and real-time availability tracking using a RESTful API backend.
- Automated scalable backend services with Express.js and MySQL, implementing secure user sessions, modular API routing, and database schema for users, hotels, and bookings.
- Integrated frontend UI using React and Tailwind CSS, ensuring consistent UX with dynamic state management

May 2025 - Aug 2025

CoinAPI – Optimal Change-Making API (Assessment)

Java (Dropwizard), React, Vite, Docker

- Built a RESTful API using Java and Dropwizard to calculate the minimum coins needed for a target amount
- Designed a React + Vite frontend for users to input coin denominations and receive computed results in realtime.
- Containerized the backend with Docker and automated builds using Maven for streamlined deployment.

Jul 2025

kNow – Real-Time Location-Based Social Platform (SUTD)

Java, Firebase, Android Studio

- Architected and launched a real-time location-based social app, integrating Google Maps API, Firebase Authentication, Firestore, Firebase Storage, and CameraX, with scalable backend and real-time data sync.
- Implemented end-to-end story lifecycle (creation, media handling, expiration) with automated thumbnail generation, efficient database writes, and geoquery search by landmarks and roads.
- Built a reusable, modular codebase emphasizing clean architecture, asynchronous data handling, and cost-optimized cloud resource management.

Jan 2025 – May 2025

Weather Reporting Telegram Bot (RSAF)

Google Sheets, AppScript, APIs

- Designed and maintained a robust Telegram Bot utilizing Google Sheets and AppScript, integrating NEA's API to deliver precise, real-time weather updates to over 3,000 subscribers
- Developed automated data conditions in Google Sheets to evaluate and classify WBGT states, providing timely notifications to subscribers for accurate weather preparedness

Dec 2022 – Present

CO-CURRICULAR ACTIVITIES

Track and Field, Singapore Polytechnic | Captain

- Captained a 50-member Track and Field team, fostering athlete development through structured training cycles.
- Achieved podium in 110mH at the POL-ITE Championships in 2018, 2019 and first mixed relay representing Singapore

Apr 2019 – Mar 2020

SKILLS & INTERESTS

- Skills: Microsoft Office | Adobe Creative Cloud (Photoshop, Animate, Illustrator) | Autodesk (AutoCAD, Inventor, Fusion)
- Programming: C, C++, C#, Cucumber, Docker, Express, Firebase, Gherkin, HTML, Java, JS, Node.js, Python, React, SQL, Tailwind, Typescript, Vite
- Languages: English (Native), Chinese (Fluent)