

## EDUCATION

**Nanyang Technological University, Singapore**

Aug 2021 – May 2025

### Double Degree Programme

Bachelor of Engineering in Computer Science CGPA:4.56/5

- Relevant Coursework: Data Structures and Algorithms (C Programming), Object Oriented Programming Design and Programming (Java & C++), Database System Principles, Machine Learning & Artificial Intelligence (Python, sci-kit-learn), Neural Networks & Deep Learning (Pandas, Tensorflow), Distributed Systems, Cloud Computing

Bachelor of Business (Specialisation in Business Analytics) CGPA: 4.55/5

- Relevant Coursework: Database Design and Development (MySQL & MongoDB), Advance Visual & Predictive Techniques in R, Financial Services Processes & Analytics

## WORK EXPERIENCE

**Software Engineer Intern, Ant International**

May 2024 - Aug 2024

- Improved and extended a core internal payment service handling **millions of transactions** daily that **controls traffic for over 25 payment methods including wallets and cards** enhancing the consistency of high payment success rates and reducing operating costs.
- Engaged in multiple SDLCs, including **business and technical analysis, risk analysis** and **monitoring** design, stakeholder engagement, development, and **release management** for highest-risk systems.
- Contributed to a **large, scalable, and highly distributed microservice** payment services system based on **Java** and **Spring Boot**.

**Software Engineer Intern, GovTech Government Digital Services (GDS)**

Jan 2024 - May 2024

- Contributed to tracks utilizing **Node.js**, and **React.js** in **Typescript, MySQL, and Redis** utilising **AWS services** including **Lambda, Kinesis, RDS & Connect**.
- Developed a **Command Line Interface (CLI) tool** to automate the initialisation, building, resolving dependencies and running process for developers to significantly improve project setup time using **Node.js** with **Typescript**.
- Documented internal authentication system based on **OAuth 2.0** specification

**Business Analyst Assistant Intern, ABR Holdings**

May 2022 - July 2022

- Developed a framework to **consolidate 9 isolated data sources** into a Redshift warehouse integrated with **Periscope** to automate and serve in-depth data analysis for various needs.
- Implemented an extraction, transformation, and loading (ETL) data pipeline with **Python** and automated it with **Airflow** using workflows, eliminating the need for daily manual execution of pipelines.
- Refined dashboards and conceptualized storyboards using **Tableau**, enhancing business development efforts and identifying key focus areas for informed decision-making.

**Software Engineer Intern, TalariaX Pte Ltd**

Jan 2021 – Apr 2021

- Designed and implemented a comprehensive chatbot admin panel with **React.js**, including a drag-and-drop chatbot builder, chatbot training section, and dashboard for chatbot flow stories.
- Developed chatbot APIs using **Node.js & Express** to handle CRUD operations and manage conversation flows.

## SKILLS

Languages: Python, JavaScript, Java, SQL, NoSQL

Technologies: Spring, Mockito, JUnit, Nuxt.js, Vue.js, React.js, Node.js, Firebase (Firestore, Functions, Storage, Auth), Express, MySQL, Redis, Puppeteer, PostgreSQL, MongoDB, Flutter, Scikit-learn, Git, OpenAI, LangChain

## COMPETITIONS & PROJECTS

**NTU Stars - Timetable Planning Tool (Vue.js, Node.js, Puppeteer, Firestore, Firebase Functions)** [🔗](#) May 2023

- Utilised a **serverless architecture** to develop services that scrape websites with **Puppeteer** and subsequently clean, format and store the scraped data in a cloud environment.
- Designed a user-centric website through storyboarding, stakeholder feedback and engagement, successfully garnering around **4000 visits** within a month.

**DSTA CODE\_EXP Mobile App Development Hackathon - Best MVP, 2nd Place** [!\[\]\(ade0d208c4c390ddb1e4e8e15fd95186\_img.jpg\)](#)

Jun 2022

- Developed a mobile application using **Flutter** and **Firebase** that enables users to donate and share army items with those staying near them.
- Utilised **Google Map APIs** and manipulated geo hash to approximate the distance between users to match different users based on proximity.

**Best Freshman Hacks - IEEE iNTUition v8.0 Hackathon - 1st Place, Freshman Track** [!\[\]\(87eaa371aa6012ba00cb26e93903d0a5\_img.jpg\)](#)

Feb 2022

- Developed a resume builder telegram chatbot that requests inputs from users and an algorithm to automate the resume writing process, generating a professionally formatted resume in docx encoding.

**CERTIFICATION****Google Project Management: Issued by Google** [!\[\]\(645d49f191f071ee4108de96860343e6\_img.jpg\)](#)

July 2023

- **Agile project management:** Implementing Scrum events, building Scrum artefacts, and understanding Scrum roles.
- Development of project documentation and artefacts throughout the project lifecycle.
- Strategic communication, problem-solving, and stakeholder management through real-world scenarios.

**AWARDS****NSF of the Year Award 2021: Issued by Ministry of Defence, Singapore (MINDEF)**

Dec 2021

- The award is presented to outstanding NSFs who demonstrated professionalism, leadership and exemplary conduct during their National Service.