

# Jeriel Chan Zhi Yang

+65 96742658 • jerielchanzy@gmail.com • <https://www.linkedin.com/in/jerielchan/>

## EXPERIENCE

### Front-End Developer @ Sheares Hall, May 2023 - Present

- Contributed to developing a comprehensive mobile application tailored for Sheares Hall utilizing React Native, designed to enhance the resident experience by providing essential services such as a payment gateway, NUS module timetable & calendar, and an interface for JCRC elections.
- Engineered an interactive events highlight page within the app, enabling residents to access information on daily activities and key events seamlessly.

## EDUCATION

### National University of Singapore

Bachelor of Computing in Computer Science, Second Major in Mathematics. Graduating in May 2026

## PROJECTS

### Smart Personal Assistant (SPA) @ Orbital NUS 2023 |

- Developed a Flutter productivity mobile application that integrates multiple daily-use applications into one platform, reducing the need for managing multiple applications
- Incorporated a Kernel model using TensorFlow Lite to suggest an optimal sequence of tasks
- Developed an Artificial Intelligence chatbot using rule-based mechanics and ChatGPT API
- Engineered To-Do List, Calendar and Timer functions
- Designed UI/UX wireframes using Figma

### Q.Now @ IEEE iNTUition v8.0 Hackathon 2022 | Hackathon Champions

- Developed a MedTech Flutter mobile application that simulates and weighs the waiting time of private and public clinics in Singapore, to improve long wait times during Covid-19
- Developed a predictive analysis model in Python for market projections
- Conducted user consensus survey and market research justifying the need for our application

### Weather Forecast Website @ Hack&Roll Hackathon 2023 | Developed a Weather Forecast Website using HTML & CSS

### IOS To-Do List Application | Developed an IOS To-Do List Application using Swift

### EliteWeightVest UIUX | Created a small business dropshipping workout equipment. Designed a Wix.com website for EliteWeightVest

### Hangar Telegram Bot @ NUS Enterprise |

- Developing a hotdesking telegram bot for NUS enterprise

### Web Forum CVWO Project @ NUS CVWO Winter Assignment 2024 |

- Developing a web forum using React, Ruby, PostgreSQL

### NexusWrap @ NUS Fintech Summit Hackathon 2024 |

- Developing a Web3 conditional wrapping prototype based on an inter-ledger protocol

## SKILLS

### Languages

Java • JavaScript • HTML • CSS • Python • R • SQL • C(+/#) • Swift • Dart •

### Libraries, Frameworks, Tools

PostgreSQL • Git • GitHub • Unity(3D/Engine) • React • Figma • TensorFlow(Lite) • Flutter •

## CERTIFICATIONS

### UNITY 3D Basic Game Workshop @ NTU CSEC | Developed a 3D shooter zombie apocalypse game using C#

### Programming Intelligence with m3Pi Robots @ NTU CSEC | Programmed Pololu m3Pi robots to solve mazes using C

### Micro:bit Basics @ ACJC | Created a "Dodge the Asteroid" game on a 5x5 screen using Scratch

## ACHIEVEMENTS

### Competitions

### IEEE iNTUition v8.0 Hackathon 2022 | Hackathon Champions

### Singapore Math Olympiad | Bronze (2016, 2017)

### Hwa Chong Maths Challenge 2017 | 3rd Team Placing, Team Leader

## MISC

### Leadership

**Officer Commanding (NS) @ *Special Operations Command*** | In charge of 60 troopers for anti-rioting, counter-terrorism, and policing duties. On track to promotion: Assistant Superintendent of Police (NS)

**Director of Operations @ *NUS Entrepreneurship Society*** | Collaborated with 35 NES members and led a team of 8 Operations Executives to organise an AI-themed startathon.

**Deputy Head of Community Student Leaders @ *Fairfield Methodist Secondary*** | Planned and orchestrated local and overseas volunteering initiatives, both school-sponsored and student-driven. Planned National Day events and Racial Harmony events as Head of National Education.

### Volunteering

**Coding Curriculum Planner & Tutor @ *Code 4 Community*** | Partnering with Centre for Computing for Social Good and Philanthropy (CCSGP) to plan and conduct non-profit lessons and collaborating with Ulu Pandan Stars to provide coding lessons for the underprivileged.

### Co-Curricular Activities

**Lego Mindstorm Robotics** | Used Lego Mindstorm block programming for 10 years (from primary to secondary school) to programme Lego robots and participated in the National Junior Robotics Competition.