

# Victor Tan Jia Xuan

(+65) 81011303 | [victortan102@gmail.com](mailto:victortan102@gmail.com) | [linkedin.com/in/victor-tan102](https://linkedin.com/in/victor-tan102) | [github.com/victortan102](https://github.com/victortan102) | [victortan102.vercel.app](https://victortan102.vercel.app)

## EXPERIENCE

### Technical Consultant (Developer) (Internship)

NCS Group | Singapore

Mar 2020 – Aug 2020

- Developed and executed scripts with dummy data for testing and created various forms and document layouts utilising Adobe Experience Manager (AEM), ensuring thorough testing of each component.
- Streamlined the validation process for software solutions, reducing the time for deployment and ensuring robust performance under a variety of scenarios.

### Sales Assistant, (Full-time)

Times Publishing Limited | Singapore

Nov 2017 – Dec 2018

- Collaborated with team members to provide customers with knowledgeable product recommendations and a high level of service.
- Played a key role in the team that consistently met sales targets, contributing to the store's reputation for excellent customer service.

## EDUCATION

### Singapore Institute of Technology

Aug 2023 – Aug 2027

- BEng. (Hons) Information and Communications Technology (Software Engineering)

### Temasek Polytechnic

Apr 2018 – Apr 2021

- Diploma in Computer Engineering

## PROJECTS

### ClearCare Web Application

- Developed a role-based hospital discharge planning web application with secure patient and caregiver account management, encrypted medical records, audit trails, and integrated scheduling to streamline pre-discharge workflows for healthcare providers.
- Implemented advanced care coordination modules, including automated service scheduling, medication tracking, home safety assessments, drug interaction alerts, and analytics dashboards to enhance communication, patient safety, and care efficiency.

### BusRouter – A Smart Routing System

- Developed a smart routing system, BusRouter, leveraging Dijkstra's algorithm and optimisation techniques like Ant Colony Optimisation and Held-Karp algorithm to calculate cost-effective and efficient routes for tourist bus operators, factoring in distance, time, ERP charges, and traffic data.
- Implemented an intuitive and feature-rich UI with dynamic map visualisation, real-time data integration from Firebase, hotel star rating integration, customizable settings, and automated web scraping for accurate and updated route and hotel information.

### HDB Resale Flat Price Analysis Python Application

- Developed a Python Application to predict and estimate the potential resale value of a particular flat model by analysing historical pricing data.
- User-friendly GUI to analyse and visualise HDB resale flat trends, incorporating features like time series analysis, geographical mapping, and storey range insights to uncover factors driving price increases.

## SKILLS

- Languages:** C, C++, C#, Java, JavaScript, Python, PHP, HTML, CSS
- Databases:** MariaDB, Microsoft SQL, MongoDB, MySQL, NoSQL
- Frameworks:** ASP.NET, Android, Bootstrap, Flask, libGDX, MQTT
- Methodologies:** Object-Oriented Programming (OOP), Model-View-Controller (MVC), Git
- Soft Skills:** Communication, Teamwork, Leadership, Problem-Solving, Adaptability, Time Management

## AWARDS / ACHIEVEMENTS

- AWS Certified Developer - Associate Jun 2025
- Mitsubishi Overseas Headquarters Prize (Mitsubishi Overseas Headquarters) May 2021
- Awards for Excellence, Director's List (Temasek Polytechnic) Jun 2020