Victor Tan Jia Xuan

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EXPERIENCE

Technical Consultant (Developer) (Internship)   Mar 2020 – Aug 2020
NCS Group | Singapore

- Developed and executed scripts with dummy data for testing and created various form and document layouts utilizing 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)   Nov 2017 – Dec 2018
Times Publishing Limited | Singapore

- 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

BusRouter – A Smart Routing System

- Developed a smart routing system, BusRouter, leveraging Dijkstra's algorithm and optimization techniques like Ant Colony Optimization 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 visualization, real-time data integration from MongoDB, hotel star rating integration, customizable settings, and automated web scraping for accurate and updated route and hotel information.

Chinese Idiom Game

- Developed a Chinese idiom game using libGDX that focuses on object-oriented principles, featuring drag-and-drop mechanics, dynamic UI transitions, and AI-powered hints to enhance user engagement and cultural learning.
- Implemented a modular and scalable architecture to support dynamic gameplay stages, randomized idiom selection, dual-language audio feedback, and extensible features, ensuring maintainability and an immersive educational experience.

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 analyzing historical pricing data.
- User-friendly GUI to analyze and visualize 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

- Mitsuboshi Overseas Headquarters Prize (Mitsuboshi Overseas Headquarters)   May 2021
- Awards for Excellence, Director's List (Temasek Polytechnic)   Jun 2020