

## Tchen Jee Wern

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### SKILLS

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<b>Programming Languages</b>	Python (Proficient), JavaScript, Java, C#, C, SQL, C++
<b>Technologies</b>	CSS, HTML
<b>Spoken &amp; Written Languages</b>	English (Native), Chinese (Native), Japanese (Elementary)

### EDUCATION

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<b>Nanyang Technological University (NTU), Singapore</b>	Aug 2019 - May 2023
Bachelor of Engineering (Computer Science)	

### WORK EXPERIENCE

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<b>Housing Development Board, UI/UX Designer / Frontend Software Engineer</b>	Jan 2022 – July 2022
<ul style="list-style-type: none"><li>Created Lo-Fi and Hi-Fi prototypes for the next generation of the HDB Rental Housing System that was centred around systemic analysis on the flaws of the current system</li><li>Developed a Minimum Viable Product (MVP) website using JavaScript, HTML and CSS based on the Lo-Fi and Hi-Fi prototypes</li><li>The new website reduces time taken in the entire process of applying for a rental flat, to receiving the keys for it for customers, and it also reduces manual work for staff</li></ul> <p>Keywords: Lo-Fi, Hi-Fi, JavaScript, HTML, CSS</p>	

### NOTABLE PROJECTS

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<b>Prediction Market</b>	Sept 2022 – Nov 2022
<ul style="list-style-type: none"><li>Created the market from an Ethereum chain using Ganache</li><li>The Web3.0 platform was made using React.js and Hardhat</li><li>Users can buy and sell predictions for a specific question</li></ul> <p>Keywords: Web3.0, Blockchain, Ethereum, React.js</p>	
<b>Robotics (AI) to Find Alphanumeric</b>	Aug 2021 – Oct 2021
<ul style="list-style-type: none"><li>Used a YoloV5 Deep Neural Network (DNN) to create an Object Detection AI model</li><li>Created a data pipeline: From extracting the images to post recognition Data Augmentation</li><li>Model was able to correctly detect predominantly hidden alphanumeric</li></ul> <p>Keywords: AI, DNN, Data Pipeline</p>	
<b>Re-Think, Re-Consider Webpage</b>	Jan 2021 - April 2021
<ul style="list-style-type: none"><li>Create a system to improve information accessibility for potential home buyers</li><li>Design a relational database to store critical resale HDB flat information</li><li>Created a web crawler to retrieve relevant news articles on resale HDB flats within ~5 seconds</li></ul> <p>Keywords: Python, Web Crawler, Relational Database</p>	
<b>GetGudGrades Multiplayer Game</b>	Jan 2021 - April 2021
<ul style="list-style-type: none"><li>Create an educational game to improve engagement with students when revising core educational concepts</li><li>Linked the different parts of the game, and making the game run smoothly</li><li>Create in-game forms to collect user input and store data in a Firebase database</li><li>Uses the layered architecture, and main program and subroutine with shared data</li></ul> <p>Keywords: C#, Software System Architecture</p>	