

# TAN YI PENG

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Hey there! I am a results-driven and detail-orientated person with a strong passion for Cloud Solutioning, Artificial Intelligence and Cyber-Physical Systems. My goal is to integrate these skillsets harmoniously in order to engineer advanced systems and applications that effectively address challenges faced by enterprises and the community.

## EDUCATION

<b>Singapore Management University</b>	<b>Aug 2021 – May 2025</b>
<i>Bachelor of Information Systems with a Second Major in Computer Science (Cyber-Physical Systems)</i>	
GPA: 3.70/4.00 (Magna Cum Laude – High Distinction)	
<ul style="list-style-type: none"> <li>Awarded Dean's List for Academic Year 2022-2023 for Stellar Academic Achievement</li> </ul>	

## EXPERIENCE

<b>Singapore Management University</b>	<b>May 2023 – Aug 2023</b>
<i>Product Optimisation Intern</i>	
<ul style="list-style-type: none"> <li>Extended an Open CV GUI Perceptual Grouping Library to extract GUI elements from a mobile interface.</li> <li>Trained a Decision Tree and Multi-label Classification algorithm to predict human-perceivable permissions on widgets of Android Applications.</li> </ul>	
<b>Tessaract.io</b>	<b>Apr 2021 – Aug 2021</b>
<i>Product Optimisation Intern</i>	
<ul style="list-style-type: none"> <li>Programmed a Slack bot using Slack API and Beautiful Soup Library to extract data on the company's drive queue and send notifications to alert the relevant personnel.</li> <li>Developed automated testing scripts with Selenium and Unit Test Framework to reduce the required testing time from 40 to 5 minutes.</li> <li>Developed data migration scripts in Python to migrate clients' data from their legacy applications to the company's database.</li> </ul>	

## CO-CURRICULAR ACTIVITIES

<b>SMU PAW (People For Animal Welfare)</b>	<b>Dec 2022 – Present</b>
<i>President</i>	
<ul style="list-style-type: none"> <li>Chaired an executive committee of 15 personnel to organise activities in championing animal welfare rights.</li> <li>Collaborated with both internal (SMU Office of Student Life) and external stakeholders (Sponsors) to ensure the smooth execution of events.</li> </ul>	
<b>SMU Project Heartcode</b>	<b>Feb 2023 – Present</b>
<i>Project Co-Lead</i>	
<ul style="list-style-type: none"> <li>Oversaw the planning and implementation of Project Heartcode which aims to uplift underprivileged children who do not have access to quality IT education.</li> <li>Spearheaded an initiative to scale up our impact from 30 to 60 mentees for the 2023 run.</li> </ul>	

## PROJECTS

### FreshGo

- Devised a web application to address inefficiencies from a farmer's perspective by assisting water, fertilizer, and crop management while reducing agent costs.
- Utilised languages/frameworks and tools such as Docker, Vue.js, Bootstrap, MySQL, RabbitMQ, KONG API Gateway, and Python Flask through a microservices architecture.
- Achieved the highest grade attainable (A+) and was nominated for the VMware Tanzu Award.

### SimplyLogs

- Co-developed using MERN Stack to improve the experience and accessibility of inventory/asset tracking by automating key processes like serialising, invoice generation, and accounting.

## SKILLS & INTERESTS

- Attained AWS Solutions Architect , AWS Certified Practitioner Certification
- Participant of DSTA BrainHack CODE\_EXP
- Software/IT skills: Python Flask, Django, React.js, Vue.js, Express.js, Java, SQL, HTML, CSS, Firebase, MongoDB, Selenium, Kubernetes, AWS, Data Structure and Algorithms, Object Orientated Programming, Relational Database Modelling
- Soft Skills: Leadership, Analytical, Responsible, Project management, Stakeholder Management
- Language fluency: Bilingual in English and Mandarin