

# TAN YI PENG

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Hey there! I am a results-driven and detail-orientated professional with a strong passion for Automation, Web Development, Cloud Computing, Cyber-Physical Systems, and the seamless integration of hardware and software systems. My goal is to become a DevOps engineer, focusing on driving efficiency, scalability, and reliability in complex technology settings.

## EDUCATION

### Singapore Management University

Aug 2021 – May 2025

*Bachelor of Information Systems with a Second Major in Computer Science (Cyber-Physical Systems)*

GPA: 3.70/4.00 (Magna Cum Laude – High Distinction)

- Awarded Dean's List for Academic Year 2022-2023 for Stellar Academic Achievement

## EXPERIENCE

### Tessaract.io

Apr 2021 – Aug 2021

*Product Optimisation Intern*

- 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.
- Developed automated testing scripts with Selenium and Unit Test Framework to reduce the required testing time from 40 to 5 minutes.
- Developed data migration scripts in Python to migrate clients' data from their legacy applications to the company's database.

## CO-CURRICULAR ACTIVITIES

### SMU PAW (People For Animal Welfare)

Dec 2022 – Present

*President*

- Chaired an executive committee of 15 personnel to organise activities in championing animal welfare rights.
- Collaborated with both internal (SMU Office of Student Life) and external stakeholders (Sponsors) to ensure the smooth execution of events.

### SMU Project Heartcode

Feb 2023 – Present

*Project Lead*

- Oversaw the planning and implementation of Project Heartcode which aims to uplift underprivileged children who do not have access to quality IT education.
- Spearheaded an initiative to scale up our impact from 30 to 60 mentees for the 2023 run.

## 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 Cloud Practitioner Certification
- Acquired Salesforce Process Automation Specialist Superbadge
- Obtained Hackwagon DS102 Data Analytics with Python 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