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 and Cyber-Physical Systems. My goal is to integrate these skillsets harmoniously to engineer advanced systems and applications that effectively address challenges faced by enterprises and the community.

Availability: 01/01/2024 -08/16/2024

EDUCATION

Singapore Management University   **Aug 2021 – May 2025**
Bachelor of Information Systems with a Second Major in Computer Science (Cyber-Physical Systems)
GPA: 3.74/4.00 (Magna Cum Laude – High Distinction)
- Awarded Dean's List for Academic Year 2022-2023 for Stellar Academic Achievement and Pilot Pen Community Champion for Active Leadership in Community Service Projects.

EXPERIENCE

Singapore Management University   **May 2023 – Aug 2023**
Research Intern
- Extended an Open CV GUI Perceptual Grouping Library to extract GUI elements from a mobile interface.
- Trained a Decision Tree and Multi-label Classification algorithm to predict human-perceivable permissions on widgets of Android Applications.

Tessaract.io   **Apr 2021 – Aug 2021**
Product Development 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.

SMU Project Heartcode   **Feb 2023 – Present**
Project Co-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

Ascenda Loyalty Application
- Devised an end-to-end Customer Loyalty Application for Ascenda Loyalty with Reliability, Scalability and Security practices.
- Deployed our application in AWS Cloud with Load-Balancing, DNS failover, Content Delivery Network and placed our sensitive workload in a private subnet while ensuring encryption at rest.
- Implemented a CI/CD pipeline with GitHub Actions which were deployed to ECS and S3 to help to release our software faster and gather feedback.

Portfolio Analyzer Application
- Developed a Portfolio Analyzer Application in Java Spring Boot for Goldman Sachs which aids to help financial professionals make more informed investment decisions.
- Utilized Redis Cache to cache the data to reduce dependency on external systems and Redis Pub/Sub for asynchronous operations to improve the performance of the application.
- Attained the highest grade possible (A+) from our sponsor Goldman Sachs.

SKILLS & INTERESTS

- Attained AWS Certified Solutions Architect and AWS Certified Practitioner Certification
- Participant of DSTA BrainHack CODE_EXP and Citi Hackoverflow
- Software/IT skills: Python Flask, Django, React.js, Vue.js, Express.js, Java, Spring Boot, SQL, HTML, CSS, Firebase, MongoDB, Selenium, AWS, Data Structure and Algorithms, Object Orientated Programming, Relational Database Modelling, Excel VBA, Github Actions, CI/CD ,Devops
- Soft Skills: Leadership, Analytical, Responsible, Project management, Stakeholder Management
- Language fluency: Bilingual in English and Mandarin