CHEE XUAN YANG

SOFTWARE DEVELOPER

Mobile: +65 9863 6622 | Personal Email: cheexuanyang@gmail.com
School Email: 2301938@sit.singaporetech.edu.sg | LinkedIn: www.linkedin.com/in/cheexuanyang
Portfolio: xuanyang-portfolio.netlify.app

EDUCATION

Singapore Institute of Technology   **Sep 2023 - Present**
- Bachelor's degree in Information and Communications Technology (Software Engineering) (cGPA 3.89)
- Expected Date of Graduation: Dec 2027

Temasek Polytechnic   **Apr 2018 - Apr 2021**
- Diploma in Information Technology (cGPA 3.29)

WORK EXPERIENCE

AI Software Engineer | Civil Service College (Internship)   **Sep 2020 - Feb 2021**
- Designed and deployed a UiPath automation to streamline inventory checklist management, reducing manual input and improving overall workflow efficiency.
- Developed an end-to-end booking automation that replaced a time-consuming manual process, ensuring accurate data capture and a smoother experience for both staff and customers.
- Created clear documentation and user guides for automation processes, helping staff quickly understand and adopt new systems.

Sergeant | The Republic of Singapore Navy, Singapore   **May 2021 - May 2023**
- Led and supervised teams in daily operations, emphasising discipline, safety, and operational readiness.
- Conducted training sessions and exercises, ensuring personnel maintained high standards of performance and preparedness.
- Managed logistical tasks, equipment maintenance, and inventory control, contributing to efficient operations and minimising downtime.

PROJECT EXPERIENCE

Golf Swing Analytics System Project   **Apr 2025 - Present**
- Conducted a literature review of existing golf swing analysis products and incorporated relevant features into the Raspberry Pi to enhance user experience
- Built a Raspberry Pi-based system to automatically capture golf swings from address (P1) to finish (P10) and upload video to Google Cloud for analysis
- Integrated MediaPipe for real-time pose detection and used TensorFlow to compare user swings with a reference model

Final Year Project - A*Star Employers Search Project   **Apr 2021 - Jun 2021**
- Built a Python web scraper to extract researcher data (name, interests, affiliation) from ResearchGate.
- Updated old JSON files from A*Star and generated new ones for additional profiles.
- Added basic rate-limiting and handled missing data issues.

CO-CURRICULAR ACTIVITIES

Head of Programme | SIT First Year Experience   **Jan 2024 – Dec 2024**
- Led the planning and execution of a club fair event to introduce new students to the various student clubs at SIT.
- Coordinated with multiple club representatives to schedule performance, manage logistics, and align promotional efforts.
- Supported event-day operations, assisting with setup, crowd flow, and attendee engagement to ensure a smooth experience.
- Contributed to the overall event design and layout, helping create an inviting and informative space for students.

Cluster Sports Manager | SIT inter-Cluster Games 2025   **Jan 2025 – June 2025**
- Managed a participant cluster, acting as the main point of contact for sign-ups, inquiries, and coordination.
- Assisted with event planning, contributing to logistics, and overall preparation.
- Supported day-of operations by guiding participants to their locations, handling late arrivals, and ensuring smooth flow throughout the event.

Vice-President | Temasek Polytechnic Chorale Club   **Apr 2019 – Dec 2019**
- Coordinating with other CCAs and leading performance preparations for public events.
- Collaborated closely with committee members to manage rehearsals, plan events, and support the needs of the chorale.
- Strengthened communication and leadership skills by making decisions in the interest of the group and resolving challenges among members.

TECHNICAL SKILLS

- Languages: Python, JavaScript
- Frameworks: React, TensorFlow
- Databases: MySQL, MongoDB
- Tools: UiPath, MediaPipe, Google Cloud