

# CHEE XUAN YANG

## SOFTWARE DEVELOPER

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### 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)

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### 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.

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### 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.

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## CO-CURRICULAR ACTIVITIES

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### 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.

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## TECHNICAL SKILLS

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