Loo Siong Yu (Singaporean)

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SUMMARY

Computing Science undergraduate specialising in Internet of Things. Experienced in web frameworks like NextJs, and Svelte, with hands-on knowledge of technologies including Cloud, Databases, and Machine Learning. I possess expertise in web development frameworks such as NextJs and Svelte and have practical experience with technologies including Cloud services, Databases, and Machine Learning. Skilled in various web development tools, I have successfully completed projects in full-stack development, demonstrating the ability to translate academic concepts into real-world solutions.

EDUCATION

Singapore Institute of Technology
Sept 2022 - May 2025 (Expected)

- **Bachelor of Science, Computing Science (Honors with Distinction)**
- **Specialisation: Internet of Things (IoT)**
- Relevant Modules: (1) Web Programming (2) Database Systems (3) Data Structure & Algorithms (4) Cloud and Distributed Computing (5) Human Computer Interaction

KEY SKILLS

TypeScript	JavaScript (ReactJS)	Python
Web Development	SQL (MySQL)	

INTERNSHIP EXPERIENCE

Software Engineer
Sept 2019 - Nov 2019

PSA International Pte Ltd

- Designed and developed a playback event application using Java and the Java Swing GUI toolkit, featuring intuitive controls (play, pause, forward, backward) and a visualisation display.
- Integrated crane log files to accurately simulate crane movements, enhancing operational insights.
- Leveraged Java programming expertise to **improve project timeline efficiency by 15%** through the introduction of a streamlined GUI.

ACADEMIC PROJECTS

1. **Integrated Appointment Scheduling and Communication System**

Developed an appointment scheduling web application focused on air-conditioner servicing as part of a client project proposed by Canary Intelligence and Analytics Pte. Ltd. to create a customer relationship management system.
- **Notable contribution**: Successfully implemented the User Interface with functions for the user role, customer.
- **Tools**: ReactJs (Js library), Django (web framework), Javascript (language), and Python (language).

2. **DoctorGO Web Application**

Created a tele-consult platform on a cloud-based distributed architecture. Assisted to package the frontend application, and implemented some pages and functions for the application. The project aims to design and implement a cloud-based distributed system/application, incorporating cloud native framework.
- **Notable contribution**: Layout and function of the home page for the user role, "Doctor".
- **Tools**: Svelte (web framework), Javascript (language), Docker (container), and kubernetes (container orchestration).

CO-CURRICULUR ACTIVITIES / LEADERSHIP

MakerSpaceNYP, <u>Student Assistant Coach and President</u>
- Elected as **President** of the Student Assistant Coaches Executive Committee.

- Introduced new initiatives to enhance the operations at MakerSpaceNYP, while guiding students and staff on proper machine usage, ensuring both safety and efficiency.
- Led workshops for students and NYP staff, fostering teamwork and hands-on learning in a collaborative setting.
- Worked closely with coaches to optimise daily operations, demonstrating **strong teamwork, time management, and problem-solving skills** in a fast-paced environment.

SKILLS
- **Languages:** Fluent in English and Chinese (Mandarin)
- **Web Programming:** Typescript, JavaScript (ReactJS), PHP
- **Web Framework:** NextJS, Svelte, Laravel, CodeIgniter
- **Software Programming:** C, Java
- **Data Analysis Tools:** SQL, Python, R, Microsoft Excel
- **Development Tools:** VSCode, Jupyter notebook, CodeBlock
- **Software Application:** Adobe After Effects, Adobe Premiere Pro, Adobe Photoshop, Microsoft Office, Words