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LEE YU XUAN

ABOUT ME

I'm a Y3 Information and Communications Technology student at Singapore Institute of Technology majoring in Software Engineering with a foundation in software development principles and practices. With experience across multiple programming languages through my academic projects, I've worked on projects ranging from web applications to mobile solutions, focusing on clean code architecture and user experience. I'm actively seeking internship opportunities to apply my skills in real-world settings and grow as a software developer.

EDUCATION

Singapore Institute of Technology

2023 – CURRENT, GRADUATING IN 2027

Bachelor of Engineering in ICT majoring in Software Engineering

Raffles Institution

2021 – 2022

Raffles' Girls School (Secondary)

2017 – 2020

AWARDS & RECOGNITION

GuruAI Certificate of Excellence (Participant) – 2025

Showcase of Social Innovation Project in Nee Soon Green Fest – 2025

Serious Games Festival Facilitator – 2025

Day Zero Facilitator – 2024

Computational and Algorithmic Thinking Competition – 2017, 2018, 2019, 2020

Appjamming Summit Semi-finalist – 2018

Edusave Good Progress Award – 2018

SKILLS & KNOWLEDGE

Technical Skills

Including but not limited to:

Programming Languages	Web Technologies	Mobile & Embedded Development	Development Tools & Platforms
Python, Java, C++, JavaScript, PHP, C, Assembly, SQL, Kotlin	HTML, CSS, MySQL, Backend Integration (PHP/.NET)	Android App (Kotlin, Jetpack Compose, XML), Embedded C/Python	Visual Studio, IntelliJ, Android Studio, Eclipse, Github
Systems & Infrastructure	Software Engineering	Cloud & DevOps	Machine Learning & Data Structures
Network Infrastructure, Wireshark, TeraTerm, Cisco Packet Tracer, Operating Systems	Software Development Life Cycle, Software Development Methodologies, UML Modelling, Design Patterns, Version Control	Basic Cloud Concepts (AWS/Azure fundamentals), Containerization Basics (Docker), CI/CD Pipeline, Server Management	Machine Learning Fundamentals, Classification & Regression Algorithms, Basic Data Structures

Academic Background

GPA: 3.56

Completed Modules			
Introduction to Computing (B)	Programming Fundamentals (B-)	Mathematics 1 (B+)	Computer Architecture (C+)
Operating Systems (B-)	Web Systems & Technologies (B+)	Mathematics 2 (C+)	Critical Thinking (A-)
Object-Oriented Programming (B-)	Computer Networks (B)	Ethics and Professional Conduct (B+)	Data Structures & Algorithms (C+)
Design Innovation (B+)	Embedded Systems Programming (A)	Intro to Software Engineering (B)	Human Computer Interaction (B)
Database Systems (B)	Software Modelling & Analysis (B+)	Software Design (B)	Machine Learning (B+)
Mobile App Development (B+)	Secure Software Development	Integrative Team Project 1	Integrative Team Project 2

RELEVANT PROJECTS

ClearCare — *Healthcare Coordination Web Application*

SOFTWARE DESIGN PROJECT

- Developed web application to streamline pre-discharge service coordination and scheduling for patients.
- Collaborated in cross-functional team using MVC architecture pattern and multiple software design patterns.
- Integrated Firebase for real-time database management and data synchronization across modules.

FitForm — *AI-Powered Fitness Mobile Application*

MOBILE APP DEVELOPMENT PROJECT

- Built Android application for real-time exercise form tracking and correction using Kotlin and XML.
- Integrated MediaPipe Pose API and AI algorithms for movement analysis, form assessment, and automatic rep counting.
- Implemented GPS sensor functionality for location tracking during outdoor fitness activities.

Recipe Planner — *Meal Planning Web Application*

DATABASE SYSTEMS PROJECT

- Developed comprehensive meal planning web application leveraging Food.com dataset and nutritional databases.
- Designed and implemented relational database schema using MariaDB/MySQL for initial development phase.
- Migrated database architecture to MongoDB for enhanced flexibility and performance optimization.

WORK EXPERIENCE

Yap Medicare Clinic & Surgery — *Clinic Assistant*

JAN 2023 - JUN 2023

- Operated medical software systems for patient registration, medication dispensing and payment processing.
- Conducted basic medical tests and operated medical equipment.
- Maintained patient records and handled administrative tasks.

LEADERSHIP & VOLUNTEERING

Project Gladiolus — *Core Team Lead*

JAN 2022 - JUN 2022

- Led weekly support sessions for members at Anglican Care Centre.
- Designed and implemented activity programs focused on personal development and rehabilitation.

Raffles Interact — *Member*

2021 - 2022

- Volunteered with eldercare organizations including St Luke's ElderCare and Xin Yuan Community Care.
- Organized and facilitated community events such as Interact Camp.
- Engaged directly with beneficiaries to provide support and assistance.

Raffles Taekwondo — *Welfare Committee*

2021 - 2022

- Organized monthly team bonding events and welfare activities for members.
- Created and managed social media content for the club's Instagram page to increase engagement and promote events.

ADDITIONAL STRENGTHS

Fast learner with proven ability to master new technologies and frameworks

Good team collaboration skills with leadership experience in group projects

Problem-solving mindset with analytical and debugging capabilities

Strong communication skills demonstrated through leadership roles

Reliable and detail-oriented approach to both technical and administrative tasks

Available for Internship: May 2026 – April 2027 (preferable)