

YAO YAO

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ABOUT ME

LinkedIn: <https://www.linkedin.com/in/yao-yao1221/>

About Me: Motivated Information Technology student with strong foundations in software development, data analysis, and cybersecurity. Recognized on the Director's List for academic excellence and awarded the Module Prize for innovation. Passionate about applying programming and problem-solving skills to build impactful applications, with interests in AI, full-stack development, and data-driven solutions.

Career Goal: Aspires to pursue a career in software engineering or AI development, contributing to innovative, intelligent, and user-centered digital solutions.

Certification: Google Project Management Professional Certificate, AWS Certified Cloud Practitioner, LUMA Certification, Agentblazer Workshop Completion Certificate

EDUCATION

Ngee Ann Polytechnic – Diploma in Information Technology | Apr 2024 – Apr 2027

- GPA: 3.85 (Sem 1.1), 3.89 (Sem 1.2)
- Awarded **Director's List Level 1** for consecutive semesters
- Awarded **Module Prize** for Innovation Made Possible (IMP)
- Achieved **Distinction** in Computing Mathematics (CM) - Top 5% in cohort
- Achieved **Distinction** in Innovation Made Possible (IMP)

Relevant Coursework & KEY SKILLS

- **Agile & Software Engineering:** Applied **Scrum** methodology in team projects; trained in Software Analysis & Design (requirements gathering, component derivation, **UML diagrams** such as class and sequence diagrams).
- **Programming & Development:** Proficient in C#, Python, JavaScript, Node.js, HTML, CSS; built full-stack web apps with RESTful APIs and SQL database integration.
- **Data & Visualization:** Experienced in using **Power BI** for data analytics and dashboarding.
- **Cybersecurity Fundamentals:** Knowledge of threats, vulnerabilities, digital forensics, and end-to-end security practices across networks, systems, and applications.
- **Operating Systems & Networking:** Understanding of processes, memory management, file systems, and **OS commands**, with networking basics.
- **Artificial Intelligence:** Explored AI concepts and industry applications; capable of proposing high-level AI-driven solutions for real-world problems.

PROJECTS

Web Portfolio: <https://yao1267.github.io/>

Healthy Aging Web App – Full Stack Application (Team of 5)

Built a senior wellness web app featuring smart medication management with auto-reminders and API-powered lookups, plus community sentiment analysis for emotional well-being insights.

Key skills:

- Full-Stack Development, API Integration, CRUD Operations, Sentiment Analysis, UX Design, JavaScript, Python, Team Collaboration

MockSell — Interactive Web Marketplace (Team of 2)

Built MockSell, a peer-to-peer e-commerce platform with secure login, live chat, promotional checkout, and smooth item listing and purchasing, backed by RestDB.

Key skills:

- HTML, CSS, JavaScript, Firebase, API Integration, Front-End Development, UX Design, Version Control

AI-Powered Student Support Chatbot – Conversational AI Application (Team of 3)

Developed an intelligent chatbot using IBM Watson to assist students with course information, grading/GPA management, assignment and exam guidance, and personalized pastoral care, improving student engagement and accessibility.

Key skills:

- Natural Language Processing (NLP), Intent/Entity Recognition, Dialog Flow Design, API Integration

Sundrop Farm – Python Farming Simulation Game

Python farming simulation highlighting game logic, resource management, and modular design.

Key skills:

- Python, Procedural Programming, Game Logic Design, File I/O, Input Validation, Problem-Solving

Flight Information Display System (FIDS) – C# Console Application (Team of 2)

Created a console Flight Info System simulating airport operations with OOP, file handling, and data structures.

Key skills:

- Object-Oriented Programming, File I/O, Data Structures, Team Collaboration, Version Control