

# 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, LUMA Certification

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## 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)

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## 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.

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## PROJECTS

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

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

*Created a senior health app with smart medication tools and community sentiment 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 an e-commerce web app with authentication, live chat, promotional checkout, and an admin dashboard, highlighting front-end and UX skills.*

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