

SHAWN WONG

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EDUCATION

Singapore Management University

Singapore

Bachelor of Science (Information Systems)

Aug 2022 - Present

- GPA: 3.60/4.00 (Magna Cum Laude)

EXPERIENCE

Freelance Software Developer

Singapore

Élever Badminton

Dec 2025 - Present

- Led end-to-end design and development of a role-based portal serving 300+ parents, coaches and administrators, automating ~90% of operational workflows
- Translated business requirements into scalable system architecture and digitized manual processes into structured platform workflows
- Drove weekly stakeholder syncs, gathered user feedback from pilot testing, and iterated rapidly to refine UX and operational efficiency

AIoT Software Developer Intern

Singapore

Bosch

Jun 2025 – Dec 2025

- Developed backend services (Spring Boot) and frontend modules (Angular) for a modular AIoT platform deployed on Microsoft Azure
- Increased test coverage from 59.2% to 82.1% by implementing comprehensive unit tests with JUnit and Mockito
- Contributed to Agile sprint cycles including backlog refinement, planning, and retrospectives within a cross-functional Scrum team

Python Developer Intern

Hanoi, Vietnam

MercTrans

May 2024 - Jul 2024

- Built and deployed a low-latency AI voice assistant using WebSocket-based speech-to-text streaming
- Engineered a Retrieval-Augmented Generation (RAG) chatbot using Milvus and PostgreSQL vector storage with OpenAI APIs
- Designed microservices architecture and containerized services with Docker for scalable deployment

PROJECTS

IntelliExo - Final Year Project in collaboration with Nvidia

Jun 2025 – Dec 2025

- Built an AI-powered research assistant using FastAPI, Next.js, Nvidia NIM framework, and Milvus vector database
- Containerized services with Docker and deployed infrastructure on AWS (S3, ECR, EC2)
- Designed and implemented CI/CD pipelines using Jenkins to automate build, testing, and deployment workflows
- Managed sprint execution via Linear and presented bi-weekly progress updates to Nvidia stakeholders

Mystery to Memory - Project in collaboration with Direct Funeral Services

Jan 2025 – Apr 2025

- Developed an immersive Unity VR experience to bridge generational emotional gaps
- Implemented AI-driven pathfinding using Unity NavMesh and interactive tutorial systems
- Collaborated with DFS stakeholders to align technical implementation with experiential goals

ARChat - DSTA BrainHack 2023

Jun 2023 – Jun 2023

- Won 1st Runner Up
- Built a mobile AR application in Unity (C#) integrating OpenAI and ElevenLabs APIs for real-time conversational AI
- Delivered interactive character experiences combining speech synthesis and LLM-generated dialogue

VOLUNTEERING

AIC - Silver Generation Ambassador

Apr 2025 – Jan 2026

- Conducted door-to-door engagements with seniors in the community to find out about their issues and bring awareness to government schemes that could be helpful to them

TECHNICAL SKILLS

Python, SQL, HTML/CSS, JavaScript, Java, Flask, FastAPI, React, Springboot, AWS, Azure, Agile/Scrum, Jira, Azure DevOps, Docker, UI/UX (Figma), Unity, Microsoft Excel