

WENHAO YAN

+852-59643736 | wenhaoy.0428@gmail.com | www.wenhaoy.dev

IANG Permit Holder

EDUCATION

Master of Science in Computer Science

Sept 2023 - Dec 2024

University of Hong Kong

- **Distinction** (highest honor) | GPA: 3.53/4.3
- Coursework: Advanced database system, Distributed ledger and blockchain, Cluster and cloud computing, Natural Language Processing, Deep Learning, Reverse engineering and malware analysis.

Bachelor of Science in Liberal Arts & Sciences

Sept 2017 - May 2021

University of Illinois Urbana-Champaign, USA

- **High Distinction | Dean's List** (5 semesters) | GPA: 3.81/4.0
- Major in Statistics | Minor in Computer Science

WORK EXPERIENCE

Mental Support Consultant Platform

Nov 2024 - Present

Full-Stack Developer, TAB Health AI

- **Designed and developed the frontend** of a user-friendly Mental Support Consultant platform using Next.js.
- **Led end-to-end project management** utilizing Agile development and **Scrum** methodology, streamlining collaboration across teams.
- **Implemented a robust distributed observability system** with **OpenTelemetry**, alongside an aggregated management solution leveraging the **Grafana Stack**.
- **Engineered an empathetic AI agent** using prompt engineering and Retrieval-Augmented Generation (RAG), equipping it with advanced clinical knowledge and counseling techniques.

Software Development Engineer

Mar 2022 - Dec 2022

Huawei Technologies Co., Ltd.

- **Developed system APIs** using C++ to support core OS functionalities for OpenHarmony OS.
- **Co-developed an innovative cloud-based widget update mechanism** (patent CN117786260A), improving system performance and power efficiency.
- **Coordinated a team** to troubleshoot and resolve critical OS defects, improving overall system reliability.
- **Refactored over 2,000 lines of legacy code** across core OS components and revamped developer-facing documentation, reducing complexity and improving usability for third-party developers.

PROJECT EXPERIENCE

Capstone Project - Multi-Platform Mental Health Chatbot

Mar 2024 - July 2024

Project Leader, University of Hong Kong

- **Led the full-stack development** of a cross-platform **mental health chatbot** using **React Native**, **Firestore**.
- **Designed the application architecture** and implemented CI/CD pipelines with **GitHub Actions**.
- **Spearheaded project management efforts** and developed comprehensive system documentation using Docusaurus, enhancing team collaboration and knowledge sharing.

EngMemo - Vocabulary Storage & Reminder Web App

Feb 2023 - Jun 2023

Full-Stack Developer

- **Independently designed and developed a full-stack web application** with React, Django, and PostgreSQL, implementing features like smart review planning, milestones, and email automation.
- **Handled the entire application development process** from UI/UX prototyping in Figma to deployment on a bare-metal server using Nginx and WSGI, and applied industry standards such as TDD.
- Enhanced user experience with 3D modeling in Blender and React Three Fiber.

Malloc Contest

Spring 2021

Machine Problem of System Programming, University of Illinois

- **1st place:** Outperformed 300 participants by implementing a memory allocation algorithm in C that achieved **6% better performance** than **glibc** (without optimization).

SKILLS

- **Technical Skills:** C/C++, Python, JavaScript/TypeScript, HTML5, CSS, R, Swift, React/React Native, Next.js, gTest/gMock, Git
- **Languages:** Mandarin (Native), English (Fluent)