Jay Hsia

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Professional Skills

- **Backend:** Python, FastAPI, Django, RESTful APIs, Cache(Redis), Message Queues
- **Cloud & DevOps:** AWS, Azure, Docker, CI/CD(GitHub Actions), Linux, Firebase
- **Databases & Storage:** PostgreSQL, MongoDB, AWS S3, Firebase Storage
- **Frontend:** JavaScript, TypeScript, React.js, HTML, CSS, Tailwind CSS
- **Other:** System Design, Unit Test, C++, Git, Scrum, Jira, Open Telemetry, Cross-team Collaboration

Work Experience

Software Application Engineer
Trend Micro

Taipei City, Taiwan
Sep 2021 – Feb 2024

- Developed a script for the development team using the pre-commit tool to unify code style and prevent committing sensitive information.
- Enhanced the Game feature within the Microsoft Teams application through strategic refactoring, optimizing data storage methodologies to nearly double system performance and reduce errors by approximately 90%.
- Developed a subscription notification system built on Microsoft Teams through a chatbot, enabling employees to receive notifications for specific projects.
- Researched and designed backend architecture for a new internal ticketing system, integrating a Message Queue System to improve workflow flexibility.
- Created a scheduled task script to store internal company documents as vectors in Azure AI Search, enabling AI chatbot development for knowledge retrieval.
- Collaborated with HR to design and implement a game-based onboarding application on Microsoft Teams, facilitating efficient knowledge acquisition for new employees.

Python Developer
Taiwan Good Fortune Cloud Co., Ltd.

Taichung City, Taiwan
Apr 2020 – Sep 2021

- Developed and maintained the internal operations and maintenance system, planning, documenting, and building RESTful APIs.
- Implemented front-end and back-end features, including asynchronous web scraping scripts.
- Led the restructuring of the system architecture for operations management, reducing server load by over 50%.
- Contributed to the implementation of the company's internal ticketing system.

Education

Seneca Polytechnic
Advanced Diploma in **Computer Programming & Analysis**

Toronto, ON
Jan 2025 – Sep 2027

Lunghwa University of Science and Technology
B.S. in **Electrical Engineering**

Taoyuan City, Taiwan
Sep 2015 – Jun 2019

Projects

The Hope Conference App • Backend Development(Volunteer)

Aug 2024 – Present

Technologies: Python, FastAPI, Vite, React.js, Tailwind CSS, PostgreSQL, Redis, AWS S3, Docker, CI/CD, Firebase

- Developed a backend system for a Conference App using FastAPI, integrating Third Party Authentication for user login, and designed APIs for frontend usage.
- Build a simple CMS based on React.js + Tailwind CSS to allow administrators to edit the data displayed on the app.
- Collaborated with frontend developer to define API structures and ensure consistent data schemas across the app.

Personal Website • Frontend Development

May 2025 – Present

Technologies: React.js, TypeScript, Tailwind, Vite, Firebase

- Developed a personal website using React.js and TypeScript, and deployed it on Firebase Hosting.