

HAOMING YAN

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EDUCATION

New York University

Bachelor of Science in Computer Engineering

Graduation: May, 2025

GPA: 3.57

EXPERIENCE

Stellar Services | New York, NY

June 2023-August 2023 | June 2024-August 2024

Software Engineer Intern

- Designed the UI/UX of an OKR Management System using **Figma** and developed it as a **SharePoint Framework (SPFx)** web part with **React**, **TypeScript**, and **PnP.js** supported with **Redux** state management.
- Implemented **OAuth 2.0** authentication via **Azure Active Directory** for secure access to SharePoint Lists and user profiles. Created modular **RESTful** endpoints and integrated role-based access control, achieving **95%** unit test coverage with **pytest**.
- Reduced deployment cycles by **40%** through **Azure Pipelines** for **CI/CD**, and containerized services using **Docker**.
- Engineered a Chatbot prototype by utilizing **OpenAI API** and fine-tuning **Python NLP pipelines**, achieving a **70%** accuracy in answering questions.
- Remodeled existing **Python** scripts to automate data extraction process from PDF to Excel using libraries **PyPDF2**, **Pandas**, and **OpenPyXL** improving efficiency of models by **28%**.

AI4CE Research Lab | New York, NY

January 2023-September 2024

Embedded Software Researcher

- Built backend logic to process acoustic signal data using **Numpy** and deployed lightweight models via **TensorFlow Lite** on **Raspberry Pi** and **Red Pitaya** platforms.
- Developed and real-time data visualization system using **React** and **Flask**, interfacing with embedded sensors on soft robotic fingers.

PROJECT

Journaling Platform | New York, NY

September 2024-April 2025

Team Lead

- Deployed a journaling platform using **Python**, **Flask** and **Flask-RESTX**, developing over a dozen fully documented **RESTful CRUD endpoints** for managing people, manuscripts, and text. Utilized **MongoDB** for document storage and **Swagger** for API documentation. Designed UI/UX in **Figma** and implemented in **React**.
- Applied automated testing including **pytest** and **Jest**, and configured **flake8** and **Makefile** for static analysis and build automation.
- Deployed the backend to **Heroku** with automated **CI/CD pipelines** via **GitHub Actions**.
- Implemented a **finite state machine** to manage manuscript review states, improving business logic clarity and modularity. Project followed a **waterfall development modal**, ensuring clear phase-based progress and delivery.

Fantasy Sports League | New York, NY

September 2024-December 2024

Team Lead

- Architected a **MySQL database** with reducing query latency and designing a **PHP/HTML** frontend with dynamic **JavaScript** integrations to enable real-time user interactions such as team creation, player drafting, and score tracking.
- Boosted cross-functional collaboration by deploying a secure **Ngrok-hosted** backend database, enabling seamless remote testing.
- Integrated robust **error-handling workflows** in both application and database level and parameterized SQL queries, **reducing runtime exceptions**.

TECHNICAL SKILLS

- Programming Languages:** Python, JavaScript, TypeScript, C++, Java, SQL, HTML, PHP
- Technical Skills:** Git, React.js, React Native, Redux, Vite, Tailwind CSS, Fluent UI, Figma, Flask, Flask-RESTX, Node.js, PHP, RESTful APIs, OAuth 2.0, JWT, Spring boot, Docker, Jenkins, Heroku, Ngrok, Pytest, Jest, Flake8, TensorFlow, Pandas, NumPy, MongoDB, PostgreSQL, MySQL, Azure, SharePoint
- Bilingual in **English**(Fluent) and **Mandarin Chinese**(Native)