Xinwei (Vivian) Xie

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EDUCATION

New York University Shanghai (NYUSH), China — Expected graduation date: June 2025

Bachelor of Computer Science; Minor in Interactive Media Arts

- Overall GPA: **3.73**/4.0; Major GPA: **3.82**/4.0
- Career Objective: **Human-Computer Interaction Engineer, Product Manager**

TECH SKILLS

- Programming: Good command of **Python, Java**, and C for algorithm design, and back-end development;
  Skilled in HTML, CSS, JavaScript, and **Vue.js**, PHP for responsive front-end development;
  Experienced with **SQLite** and **Flask** for database management;
  Adept at coding with three.js, processing, and **p5.js** for creative live coding applications.
- Prototype: **Arduino** micro-controlling; 3D printing and laser cutting modeling for physical computing.
- Machine Learning: CNN, RNN, Linear Regression, Transformer, ml5.js.

RESEARCH

Digital Avatar: a Human-AI Collaborated Solution for Online Consultation — 04/2024 – 10/2024

Research Assistant, Supervised by Prof. Chun Yu, Tsinghua University Human-Computer Interaction Lab

Paper Submitted*: The 27th ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW 2025)*

- Led the systematic design of an innovative multi-agent product, pioneering new forms of human-AI collaboration in consulting; facilitated human-like adaptive learning and sustained growth through continuous learning mechanisms.
- Spearheaded the deployment of the product as a mobile application; collaborated with interdisciplinary teams to defining user flow, and API standards; optimized system response speed; developed web interfaces for user testing;
- Designed and executed multi-phase user experiments to investigate expectations of digital psychology products; assessed user trust in AI-generated consultation content; integrated collected insights back into design and development cycles.

Kiwi: an LLM-powered Learning Assistant for Advanced Coding Education — 09/2024 – 12/2024

Capstone Project, Supervised by Prof. Hongyi Wen, NYUSH

- Developed a personalized learning system utilizing multi-LLMs to integrate various educational materials based on a naive Kiwi system, enhanced personal learning experience in advanced coding courses like Data Structures.
- Designed three methods to enhance Retrieval-Augmented Generation, embedded coursework-specific contextual information to improve the quality of generated responses, resulting in a 15% increase in answer relevance.

INTERNSHIPS

Shanghai Hanchuang Techonology Co.,Ltd | *Product Manager Intern* — 12/2024 – Present

- Spearheaded the commercialization of GoChina, an AI-driven mobile solution for real-time menu translation for inbound travelers, and a web platform that integrates travel collections and recommendations.
- Directed PRD development and prototype design, coordinating with cross-functional teams to accelerate the go-to-market timeline; drove user acquisition campaigns on the Apple App Store, achieving a 20% user conversion rate.
- Led advanced SEO optimizations and set up Google Analytics tracking strategies, increasing organic traffic by 10%.

SoundCool Project Maintenance | *Front-End Developer Intern* — 05/2024 – 08/2024

- Maintained SoundCool website using React.js, focusing on package and syntax updates to enhance system performance.

Sun Car Online Insurance Service Co.,Ltd | *Front-End Developer Intern* — 05/2024 – 08/2024

- Utilized Vue.js to develop coupon advertising interfaces based on UI graphs for the Tuniu car service App.

PROJECTS

Online Forum Development — 02/2024 – Present

- Designed, built, and launched a non-profit anime fandom forum from the ground up. Successfully went live in May 2024, now with 5,000+ registered users across 10+ countries and over 500 daily active users.
- Led a 10-person team in managing the forum; conducted user research to identify needs and introduced new features.
- Regularly monitored user engagement metrics, such as traffic and retention rates; adjusted algorithms and product strategies to enhance user activity.

Flexible Congestion Tax for New York City — 11/2023 – 12/2023

- Utilized data analysis, and data visualization to prove the effectiveness of adopting a dynamic congestion tax for New York City aimed at reducing traffic congestion, addressed equity issues for the tax among different income groups;
- Implemented the Spatio-Temporal Graph Convolutional Network for peak-hour traffic simulation with flexible taxing.