Wanxuan Li

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Education

Cornell University, Master in Information Science - Ithaca, NY, US — Aug 2024 – May 2025

University of Manchester, BSc. in Computer Science (First class honors) - Manchester, UK — Sept 2021 – June 2024

Skills

Languages: Mandarin Chinese (native), English (advanced), Korean (intermediate)

Technical Skills: Python (NumPy, Pandas, Matplotlib, scikit-learn, NLTK, OpenCV), Java, JavaScript, HTML, CSS, R, Visual Computing, Machine Learning, Data Science, Figma, React, Vue.js, SQL

Professional Experience

Operations Intern, Tsinghua Heritage Institute for Digitization Co.,LTD - Beijing, China — Aug 2023 – Sept 2023

- **Social media operation and maintenance:** Identified communication trends and audience needs across various UGC platforms, and managed the organization's social media accounts on RED and TikTok.
- **User-front audience engagement:** Provided visiting guidance and VR exhibition tours to visitors aged 7-70, enhancing institution's influence.

Data Analysis Intern, Orange (France Telecom) China Service Desk - Beijing, China — July 2023 – Aug 2023

- **Telecommunication Data Analysis and Routing Optimization:** Used Python and Excel to collect and analyze raw data, providing insights to support telecommunication business decisions. Successfully optimized communication costs and developed a Python program to manage the switching of routing lines for over 240 countries based on service availability.

Projects

Learning Analytics Dashboard Development, Cornell University (Team Project) — Mar 2025 – May 2025

Developed a dual-perspective dashboard using R Shiny to support both instructors and students in monitoring learning progress. Awarded Best Dashboard Design Project in class and showcased during a lecture presentation.

- Designed the instructor view to present class learning trends and the student view to track individual learning progress.
- Cleaned and preprocessed complex datasets from three academic years, including handling missing values by applying median imputation for skill ratings.
- Implemented key visualizations, including skill-performance scatter plots, horizontal bar charts comparing skill levels, personalized five-dimensional spider plots, and line graphs comparing emotional sentiment across sessions.

Ithaca Soap Mobile App Design, Cornell University (Team Project) — Mar 2025 – May 2025

Designed and developed an app for a local soap company, from user research to Vue.js implementation.

- Created low-fidelity prototypes in Figma and iteratively optimized UX flow through three rounds of usability testing with target customers.
- Built responsive frontend components in Vue.js including product displays, shopping cart functionality, and ingredient comparison tools.

Microsoft Smart Memory (Frontend Developer), Cornell University — Aug 2024 – Dec 2024

Developed a platform allowing users to register and create personal "smart memories," enabling them to save URLs and use a chatbot to ask questions and retrieve relevant information based on saved data.

- Designed UI wireframes in Figma and implemented the interface using React.

Visual Programming Language Development, University of Manchester — Sept 2023 – May 2024

Developed a **frontend-based Visual Programming Language** to **overcome limitations** of platforms like Scratch

- **UI/UX Design (HTML, CSS):** Designed drag-and-drop block components that allowed users to visualize complete control flow, simplifying complex programming concepts such as branching for better accessibility.
- **Frontend Development (JavaScript):** Developed an automatic code generation feature that translated user-created flowchart diagrams into executable code, effectively bridging the gap between visual programming and text-based coding.
- **Research-Driven Improvements:** Developed animated visualizations of program execution based on user research, enhancing real-time control flow representation and improving user engagement and comprehension.
- **Creative Problem Solving:** Innovative design blocks extended beyond the capabilities of the JsPlumb package.