Peiyang Wu

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Education

Master of Computer Science , *University of Illinois Urbana-Champaign, CS* | Illinois, USA		*2024-present*
3.92/4.0 **Study Away (Computer Science & Data Science concentrating in Marketing)**, *NYU, CAS* | NY, USA		*2022-23*
3.765/4.0 **BTech in Computer Science & Data Science concentrating in Marketing**, *New York University Shanghai*		*2020-24*

Achievements: Latin Honors: Cum laude | Deans's List
Courses: Applied Internet Tech | Operating Systems | Software Engineering | ML | Algorithm | Theory of Computation | Discrete Math
Certifications: Dean's Undergraduate Research Fund (Summer 2023) | Honorable Mentions in COMAP's Mathematical Contest in Modeling (MCM) (Spring 2023) | Best Innovation Award in NYU Hackathon, Math Modeling Track (Spring 2022)

Technical Skills

Programming	Python, Node.js, JavaScript, Java, HTML, CSS, C
Frameworks/Tools	Git, Flask, Express.js, React.js, Vue.js, Bootstrap
Software	Linux, Tensorflow, Pytorch, Docker, Conda, Keras, Transformer, IBM SPSS, Stata, R, CUDA, Matlab, Git, Scripting (Bash)

Experience

New York University, *Full Stack Programmer & Research Assistant*   *July 2024 - present*
- **Full stack** build up the platform using node.js, studies how AI facilitates financial literacy and in turn affects retail investors' trading behaviors
- Collaborate with teammates to Collect and analyze experimental data, and Conduct literature review

Chongqing International Media Center, *Full Stack Programmer & IT Support Intern*   *July 2023 - Sep 2023*
- **Full stack** designed, developed, and deployed a user-centric website featuring AI-driven tools, enabling interactions with **3** robust Large Language Models, along with AI painting in **18** diverse artistic styles
- Initiated proactive outreach to forge connections with tech industry leaders willing to integrate AI functionalities into their operations, facilitating the integration of their API functions into the website's framework
- Provided technical support to a user base of over **3,000** individuals, delivering concise user preferences to enhance overall user experience and usability

Chongqing Chengyu Media, *User Experience Design | Backend Manage Intern*   *July 2022 - August 2022*
- Utilized back-end logging to track user feedback; informing continuous improvements to the platform
- Collaborated in weekly meetings to disseminate progress reports and establish priorities for the upcoming week
- Managed Software Back-end for Chongqing Chengyu Media, responsible for ensuring timely news creation and publication

Chongqing Publishing Group, *Web Development | IT Support Intern*   *July 2021 - August 2021*
- Developed chat boxes and customer service interaction features involving web visual design, client-side programming, compatibility improvements, and functional testing
- Improved and implemented company's official website, focusing on client-side design and programming, completing the majority of main page design and coding
- Provide general IT support for development team and other department facilities to **500** faculty

Projects Highlights

Big Data Analyst Project   *Sep 2022 - present*
New York University & Ant-Group (Research Assistant)
- Conduct data analysis with highly confidential data given by Alibaba. Cleanse and process data to build a conclusive model. Review literature and deliver regular summary reports and visualizations to team members

Dialog State Tracking with Large Language Models (LLMs)   *Sep 2023 - Dec 2023*
Natural Language Processing (Capstone Group Project)
- Employed advanced techniques to fine-tune LLMs using Transformer architecture, optimizing their capabilities for Dialog State Tracking tasks. Obtained a temporary State of the Art Result in Multiwoz 2.1 Dataset
- Conducted rigorous research to identify optimal hyper-parameters for training across various LLMs, including Llama2-chat, Llama2 (7B, 40B), and Falcon (7B)
- Monitored the training process on HPC systems, maintaining timely records of logs, and swiftly resolving any encountered bugs

Predicting Stock Price Trends by Generating Candlestick Charts   *Sep 2023 - Dec 2023*
Variational AutoEncoder (VAE) and Transformer Utilization (Capstone Group Project)
- Utilized **Transformer-based** and **Variational AutoEncoder** models to predict future stock price movements with precision
- Executed a rigorous training program on an HPC platform, fine-tuning hyperparameters to achieve superior prediction accuracy

***AeroGuild* Airline Ticket-Reservation Website**   *Fall 2022*
Databases System, full-stack web design project with Python (Course Project)
- Develop and deploy a **full-stack** website, providing customers with access to search and book airline tickets while enabling airline agent companies to add their services
- Implement server-end by **Python Flask**, a responsive front-end built on **Bootstrap**, and a **MySQL** database, ensuring a feature-rich and user-friendly platform