

Jiawen Li

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Education

Shanghai Jiao Tong University <i>B.S. in Mechanical Engineering</i>	Sept. 2022 – Aug. 2026
University of Michigan, Ann Arbor <i>B.S. in Data Science Engineering</i>	Aug. 2024 – Aug. 2026

Research Experience

Undergraduate Research Assistant <i>Advisor: Prof. Steve Oney, SPOT</i>	Jan. 2025 - Present <i>Ann Arbor, USA</i>
<ul style="list-style-type: none"> Developing Multiclick, a browser extension for automating repetitive web tasks, exploring novel human-computer interaction techniques inspired by VS Code's Multiple Cursors. Focusing on interaction design and usability, implementing an intelligent element selection method by using XPath querying and web scraping techniques to accurately identify and interact with web components. Building a synchronization system using browser APIs, background scripts, and content scripts, and creating an interactive and scalable UI using JavaScript, React, and extension frameworks. 	
Undergraduate Research Assistant <i>Advisor: Prof. Youyi Bi, Data-informed Design and Intelligent Systems Lab</i>	Jan. 2024 – May 2024 <i>Shanghai, China</i>
<ul style="list-style-type: none"> Proposed a knowledge transfer method to enhance learning efficiency and accuracy in automatic robots operating in complex, multi-task manufacturing environments. Designed and implemented a simulated manufacturing environment and a robot ML-Agent for reinforcement learning experiments using Unity3D and C#. Developed and trained a transformer-based deep learning model for knowledge transfer in reinforcement learning-based robot motion planning under Unity simulation environment. 	

Work Experience

Data Analyst Intern <i>XD Inc.</i>	July 2023 – Sept. 2023 <i>Shanghai, China</i>
<ul style="list-style-type: none"> Analyzed user feedback data of the company's latest released mobile game <i>Sword of Suzuliana</i> for the executive office. Collected and cleaned over 100k user feedback and activity data by using web crawler and SQL from open sources and company databases. Utilized natural language model (BERT) to analyze sentimental tendencies of the text data from users' comments and discussions of the game in various platforms and forums. Conducted user experience research with the operations team, which involved designing questionnaires, analyzing data, and drawing inferences from survey results. 	
Teaching Assistant <i>TA for Introduction to Computer and Programming</i>	Sept. 2023 – Jan. 2024 <i>Shanghai, China</i>
<ul style="list-style-type: none"> Graded exams, assignments and lab projects. Held regular recitation sessions and office hours every week. Designed lab projects to help students acquire and enhance programming abilities. 	

Honors

2023 Excellent Teaching Assistant Award <i>Center of Learning and Teaching, UM-SJTU JI</i>	May 2024
2023 China Undergraduate Mathematical Contest in Modeling, Third Prize <i>CSIAM</i>	Jan 2024