

Junyuan Wang

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EDUCATION

University of Minnesota Twin Cities

Bachelor of Science in Computer Science

Minneapolis, USA

Sep 2020 – May 2024

The Hong Kong Polytechnic University

Master of Science in Information Technology

Hong Kong SAR, China

Sep 2024 – TBA

WEB3 EXPERIENCE

Ming-Chain Technology

Internship

Shenzhen, China

June 2024 – August 2024

- Led the translation and editing of the “Hong Kong Web3.0 Standardization White Paper” from Chinese to English, managing a 150-page document covering global Web3 industry standards and proposals, and gained significant knowledge in Web3 through this progress.
- Participated in Malaysian Blockchain Week 2024, where I translated and edited all event materials, handled English communication with visitors and clients, contributing to over 2000 USDT in sales, and provided UI/UX design suggestions for the company’s website, apps, and products.

RESEARCH EXPERIENCE

UMN Campus Shortest Path Finding

Lead, Developer

Minneapolis, MN, USA

Jan 2023 – May 2023

- Integrated five path-finding algorithms to create a highly efficient and accurate experimental navigation system for the University of Minnesota campus.
- Designed and implemented a responsive web interface using Node.js, Express, and JavaScript, offering users an intuitive platform for seamless campus navigation and experiment results.
- Executed over 1,800 test iterations across various algorithms to rigorously validate system reliability, accuracy, and performance under diverse conditions.

Improving User Profile in Recommender Systems

Research Assistant

ONGOING, Remote

June 2024 – Present

- Collaborating with former instructor to enhance user profile representations in movie recommender systems.
- Exploring advanced techniques in user profiling, including contextual data integration, natural language processing, and interactive visualizations.
- Utilizing Figma for prototyping of improved profile representations.

PROJECTS

Music Recommendation System Based on Language Models

Sep 2023 – Present

- Developed a personalized music recommendation system using GPT-4, integrated with the Spotify API to analyze user inputs and suggest music based on mood, genre, and language preferences.
- Created a responsive website that dynamically displays recommended music along with direct links to Spotify, enhancing user experience and engagement.

Multithreaded Web Server

Sep 2022 – Dec 2022

- Implemented a multi-threaded web server using C and POSIX threads, capable of handling HTML, GIF, JPEG, and TXT files, with support for HTTP GET commands.
- Gained deep insights into thread programming, synchronization methods, and low-level network operations, enhancing my understanding of concurrent processing.

SKILLS

Languages: Python, C / C++, Java, JavaScript / TypeScript, SQL (MySQL)

Development Environments: Linux command line, Docker, Git/GitHub, JetBrains Suite, VS Code

Tools & Frameworks: React, Flask, Node.js, Express, Figma

Data Analysis: Data Scraping, Big Data Analytics, Machine Learning