WEI JIANG

+1 669 279 9260 • wei.jiang@colorado.edu • linkedin.com/in/weijiang08 • github.com/mr2wei • mr2wei.github.io

EDUCATION

University of Colorado Boulder — Boulder, Colorado, United States
Bachelor of Science in Computer Science — *Expected May 2026*
Honors: Academic honors list — *GPA: 3.976*

EXPERIENCE

Keysight Technologies — Bayan Lepas, Penang, Malaysia
RnD Software Engineering Intern - Order Fulfilment Team — *June – August 2024*
- Developed an advanced chatbot from end-to-end with **Azure, TypeScript, ReactJS and Flask** to streamline the support ticket system on **Jira**, cutting response times from 3 days to just 30 seconds, while improving user experiendce for issue reporting and enhancement requests.
- Engineered a **Retrieval-Augmented Generation (RAG)** and conversation system using a combination of **chat and embedding models** along with **NLP** techniques through **LangChain** and **NLTK**, enhancing quality of response and user interaction.
- Chatbot outperformed Confluence search, delivering more relevant and accurate results for natural language queries by 80%.

Collaborative AI and Robotics Lab (CAIRO), Human Interaction & Robotics Group (HIRO) — Boulder, CO
Research Assistant — *October 2023 - Current*
- Collaborating with the lab on a research project focused on simulation to reality transfer of robot learning via diverse training environment generation.
- Assisted in research of causal effects of robot movements on human actions during human-robot teaming by using object detection models such as YOLOv8 to identify humans and their behaviours around a moving robot.
- Contributed to research and co-authored a conference paper on Causal Influence detection in Human-Robot Interactions for Causal-HRI 2024 (https://www.cairo-lab.com/papers/causalhri2024_workshop.pdf).

University of Colorado Boulder — Boulder, CO
Learning Assistant — *January 2023 - Current*
- Coordinated with professors and teaching assistants in helping over 1000 students in CU's Intro to Computer Science, tutoring course concepts and providing aid to student's projects and assignments during office hours.
- Applied specialized training and adopted effective communication methods to effectively address student's learning needs

PROJECTS

Semantle AI + NYTimes Connections Solver | Hackathon Winner | devpost.com/software/mega-problem-solver — **Spring 2024**
- Solved popular online puzzles and games using AI and machine learning techniques.
- Developed an AI solution utilizing **Word2Vec** vectorization, **linear algebra** and **machine learning techniques** to solve the word game Semantle in 3-4 guesses and increase winning chances in NYTimes game, Connections.
- Utilized **unsupervised machine learning algorithms** like **K-Means Clustering** to speed up the runtime when generating guesses by a projected 50% compared to initial attempts.

AI PDF Summariser | github.com/mr2wei/AI-PDF-Summariser | mr2wei.github.io/AI-PDF-Summariser — **Spring 2023**
- Utilised LLMs to assist in reading, summarising and understanding PDF documents such as academic papers.
- Optimized notetaking during textbook reading, resulting in a **time savings** of over 2 hours weekly, while enhancing overall comprehension; gaining interest from 10+ individuals for further developments.
- Integrated **OpenAI's API** into a **React JS** application, enabling dynamic interactions and real-time response generation, boosting the app's functionality and user experience.

Discord Music Bot | github.com/mr2wei/Discord-Spotify-radio-bot — **Fall 2022**
- Created a discord bot to simplify and improve playing music experience on Discord.
- Designed and implemented a Discord music bot featuring intuitive UI/UX functions, enhanced **recommender algorithms** and seamless listening experience.
- Integrated multiple **APIs** including Spotify, yt-dlp, Google Search, and Sponsorblock with **Python**, diversifying the bot's capabilities and significantly enhancing versality and functionality

SKILLS, INTERESTS & CERTIFICATES

Programming Languages: C++, Java, Python (Pandas, Matplotlib, Numpy, BS4, NLTK), JavaScript (React), HTML, CSS

Software: Visual Studio Code, Microsoft Office Suite (Powerpoint, Excel, Word), Google Suite (Docs, Sheets, Slides), Github

Awards: 1st Place in HackCU Hackathon, 1st Place in Tenby Photo Competition, 3rd place CU G-RAP international photo contest