

Henry Zhang

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Education

New York University Shanghai: BS Computer Science, Minor: Business

Relevant Courses: Agile and DevOps, Object Oriented Programming, Operating Systems, Design & Analysis of Algorithms, Databases, Data Structures

Experience

Medidata AI Software Engineering Intern

June 2024-August 2024

- Tested, evaluated, implemented two embedding models for accurate **RAG on over 20,000 Medical Records**
 - Curated structured study data into semantic searchable vector database
- **Architected** RAG query breakdown into **hard constraints, text search, and semantic search** on pgvector database
- Collaborated with **cross-functional team** to determine user pain points with data visualizations using **Pendo user analytics** and issue tickets

Microsoft AI Co-Innovation Labs Software Development Intern

June 2023-August 2023

- Developed application using Azure OpenAI and LangChain to **facilitate employee-database communication**
- Utilized embeddings, prompt engineering, and Langchain Agents to convert relational data into easy to read summarizations for product managers to generate reports on tabular data
- Presented the [POC](#) to employees in streamlit, and was **approved and integrated into the company portal**

Jika.io Intern Technical Project Manager

March 2023 - June 2023

- Implemented a relational schema and wrote SQL scripts to **extract, transform, and load user analytics**
- **Managed a team** of 6 and designed and **implemented data pipeline from MongoDB into BigQuery** to eventually be displayed in Looker Studio
 - Was the **point of contact** between Jika.io and my team, wrote comprehensive meeting notes, and determined and divided up tasks and responsibilities among members
- Worked closely with the technical lead at Jika.io to **determine best methods of integration** for their data infrastructure by considering price, implementation and integration, and performance

TAMID Director of Technology

February 2023 - June 2023

- In charge of the inaugural tech track at NYU Shanghai
- **Managed, educated, and mentored** new applicants on soft and hard skills needed in tech to prepare them for project teams in later semesters
- **Completed a [web scraper](#)** to submit to TAMID Global for approval for creation of the new Chapter

Tech@NYU Tech Trek Tutor

September 2023 - December 2023

- Selected as 1 of 4 tutors out of many applicants across both the Undergraduate and Graduate programs for **ability to articulate concepts** about technical projects in an understandable manner
- Guided mentees in their projects using agile development, using previous experience with relevant technologies

Projects

[Pet Tinder Web Application](#)

Spring 2024

- Social Media posts, Tinder matching algorithm, instant messaging, and user authentication developed using Agile methodology and MERN stack

[Personal Portfolio Website](#)

Winter 2024

- Created a MERN stack application from scratch to display my resume in a digestible webpage
- Deployed client and server applications to my custom domain henryszhang.com

[Airline Database Simulator](#)

Spring 2023

- Wrote a web application with Django and MySQL to hone skills with SQL, HTML, and Database Management.

Skills and Interests

Programing Languages: Python, SQL, Java, C/C++, C#, HTML, Javascript, Typescript, HTML/CSS

Libraries and tools: LLMs, Git, Docker, AWS, Bigquery, pandas, numpy, Langchain, Flask, Django, MERN, spaCy

Languages: English (Native), Chinese (Fluent)

Other Passions: Piano, Lacrosse, Boulderding, Tennis