Henry Zhang

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Education

New York University Shanghai: May 2025

Major: BS Computer Science, Minor: Business (GPA: 3.55)

Relevant Courses: Design & Analysis of Algorithms, Databases, Data Structures, Agile and DevOps, OOP

Experience

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 porta**l

Jika.io Intern Technical Project Manager   *March 2023 - June 2023*
- Implemented a relational schema and wrote SQL 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
- Weekly meetings with mentees to guide them in their projects using agile development, using my previous experience with web development, AI, and other necessary tools

Projects

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.

Digital Assistant Widget   *Summer 2023*
- Widget that utilized LLMs to chat with personal data to save time searching tabular data when writing reports
  - Coded using React JS that called a REST API in Flask for easy integration into the existing code base

Ebay Machine Learning Competition   *Fall 2023*
- Extract named entities from a large dataset of German ebay listings with 81 percent accuracy using SpaCy Library

Skills and Interests

Programing Languages: Python, SQL, Java, HTML, Javascript, Typescript, CSS
Libraries and tools: OpenAI, pandas, numpy, Langchain, Flask, Django, React.js, Git, Docker, Bigquery, spaCy
Languages: English, Chinese (Fluent)
Other Passions: Piano, Lacrosse, Bouldering