

Haihan Gao

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Education

University of Michigan, Ann Arbor, MI

Class of 2024

College of Literature, Science, and the Arts,

Bachelor of Science Major in **Computer Science** and Minor in **Mathematics**

- Cumulative GPA: 3.5/4.00
- Margaret S. Huntington Prize in Actuarial Outreach
- Courses: Data Structures and Algorithms, Data Analytics, Intro to Computer Architecture, Web Systems

Projects

Projects For Class Web Systems

Jan. 2022 – May 2022

- Developed an Instagram-like web application using React for front-end, Flask for back-end, and SQLite for database, supporting features like user sign-in, posts, comments, infinitely scroll and double-click
- Built a multi-worker and fault-tolerant MapReduce server in Python which can process user-submitted tasks using the threads and sockets
- Implemented a search engine similar to Google or Bing from scratch, based on text segmentation, Hadoop MapReduce indexing, and tf-idf scores

Experience

Dakdan Worldwide

May 2022 – Present

Web Dev Intern, remote

- Enhanced Wordpress on-site SEO and grew the sites' organic audience and rankings on google search
- Performed in-depth competitor reviews to check competitor activities with ad placement and keyword use
- Built a chatbot for ZooMedia using ConversioBot to provide automatic customer support

MWolves (Michigan Wolves) Basketball Team

August 2021 – Present

Assistant Coach and Data Analyst, Ann Arbor, MI

- Led the basketball team by creating training schedules, supervising the training process twice a week and reviewing the training videos to generate analytics reports on each player's performance
- Programmed R and Matlab applications to record data, including Diff, field goal rate, turnovers, of 20 athletes based on shooting locations and scores per game, and produced a visualization of the shooting map
- Analyzed data with Excel to devise drills to optimize players' performance, improving FTA(Free Throw Rate) from 34% to 60% and Points/Possession from 0.67 to 0.98

GDL Clothing

May 2021 – August 2021

TikTok Content Manager, Hangzhou, China

- Analyzed backend data, including engagement rate and average likes, to see beyond the numbers and understand how users interact with ads and livestream products
- Delivered data support by using hypothesis testing and model evaluation to identify trendy contents for business development plans from strategic scope to drive account traffic and boost sales
- Brainstormed, produced and published creative content daily including script writing and videos editing using CapCut Video Editor

Undergraduate Research Opportunity Program (UROP)

Dec. 2020 – April 2021

Researcher, Ann Arbor, MI

- Interpreted and transcribed 30 letters under Professor Kelsey, Chairman of the Department of Latin at UM
- Coordinated with researchers working on the papyrus collection to organize the historical archival letters chronologically and presented findings on the Egyptian's dealing process of fragmented papyrus in 1910s

Software Skills

C++, Python, R, Java, JavaScript, HTML, Mathematica, Swift, C#, Photoshop, Microsoft Word, PowerPoint, Excel