

Jihyung Park

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EDUCATION

The University of Texas at Austin, Austin, TX

May 2026

Master of Science in Computer Science

The University of Texas at Dallas, Dallas, TX

May 2024

Bachelor of Science in Computer Science, GPA: 3.936/4.000

SKILLS

- Programming: LLM, DNN, LangChain, Java, Python, C, C++, SQL (PostgreSQL, Oracle), Firebase, and React
- Cooperative: JIRA and Git/GitHub
- Other Tools: MS Office, Latex, and R

RESEARCH EXPERIENCE

Human Language Technology Research Institute, University of Texas at Dallas

December 2023 – June 2024

Advisor: Dr. Vincent Ng

- Submitted a research paper to an NLP conference on designing experiments to identify hidden meanings and detect hate speech in memes that combine text and images, including the creation of a new comprehensive dataset corpus.
- Developed and reviewed of guidelines for annotating memes for the creating corpus, focusing on uncovering hidden meanings and determining hateful content through the combination of text and images.
- Implemented a secondary review process and adopted an efficient reevaluation approach based on the analysis of annotators' biases.
- Conducted LLM fine-tuning to generate reasoning for hidden meanings in each meme and detect the hateful intent associated with those meanings.
- Collaborated with a team to construct a Multi-modal pipeline using a vision model that performs behavior analysis with objects in each image.

Undergraduate Research, University of Texas as Dallas

August 2023 – December 2023

Advisor: Dr. Ovidiu Daescu

- Developed a prediction model by TensorFlow for videos becoming "Trending" based on processed YouTube metadata with an over 95% accuracy.
- Generated and preprocessed secondary data to enhance viewership metrics including view velocity, title and description length/complexity, saturation, luminosity, and complexity of thumbnail images, derived from existing datasets.
- Conducted presentations on the status at each milestone, fostering feedback exchange on each research and facilitating improvements in presentation skills.

PROJECTS

RAG Agent / AI Trip Planner

September 2024 – October 2024

- Developed an agent utilizing Retrieval-Augmented Generation (RAG) and Llama 3.2 1B model to assist users in travel planning based on budget, dates, and location-specific preferences.
- Utilized LangChain/Tavily to search for relevant data such as phone numbers, addresses, and prices from online sources, enabling accurate inference.

Pose Detecting Exercise Assistant, University of Texas as Dallas

April 2024 – May 2024

- Developed a program utilizing MediaPipe for real-time body part position recognition, enabling exercise posture correction and assisting users with workout routines through computational analysis.
- Added a game-like exercise assistant feature to enhance user engagement, along with a score competition system that connects users via a web service for real-time ranking.

Korean International Student Association Website, University of Texas as Dallas

July 2022 – August 2022

- Utilized React and Firestore to develop the organization's website, including an authorization and post management system for over 120 users.
- Conducted code reviews and mentoring 6 team members to improve their technical skills.