Taegang Kim

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EDUCATION

The University of Texas at Austin, Austin, TX
Bachelor of Science, Computer Science
GPA: 3.92

SKILLS

Technical Skills: Java, Python, C, HTML, CSS, Javascript, GIT, Linux
Languages: Native Korean
AI Frameworks & Tools: LangChain, OpenCV, RAG, Streamlit, React

PROJECTS

Ready2Interview *(Intel AI Hackathon Project)* – November 2024
- Developed and hosted an AI Interview Assistant web service at a large hackathon with over 900 participants.
- Utilized OpenAI GPT-4, RAG, and Tavily Search integration with additional prompt engineering to automatically generate tailored interview questions based on user resumes and target company profiles.
- Tech Stack: Python, OpenAI GPT, LangChain, Tavily APIs, Whisper, Hugging Face (wav2vec2), streamlit.

DIY Room Designer *(CouldFlare+Toolhouse Hackathon Prize Winner: "Most Likely to Be a Business")* – November 2024
- Developed an interactive room design app allowing users to create and customize virtual rooms with realistic, AI-generated images based on user input.
- Tech Stack: Python, Streamlit, OpenAI API, ToolHouse AI.

MoodAnalyzer: AI-Powered Emotional Wellness – March 2025
- Designed and developed an iOS app that analyzes users' emotional states through adaptive questionnaires and expressive drawings, using Llama-3 for text analysis and Llama-3 Vision for drawing insights.
- Tech Stack: Swift, Llama-3, Computer Vision, NLP, SwiftUI, PencilKit

Unveil *(Meta Austin Llama Impact Hackathon Prize Winner: "Best for Austin")* – December 2024
- Developed an IOS app leveraging the Llama language model in collaboration with Meta to uncover hidden historical stories, recommend nearby historical sites, and provide real-time insights with AR integration.
- Tech Stack: Swift, Llama 3.2, Groq API, Toolhouse AI 2024

NLP Spyfall Agent *(Machine Learning and Data Science 'Long Competition' - 1st place)* – January 2025
- Developed an agent that plays Spyfall, identifying the spy or inferring the location of the spy to achieve the highest score.
- Tech Stack: Python, together.ai API

AppFacial Mask Detector using ResNet – January 2023
- Developed a facial mask detection system leveraging a Convolutional Neural Network (CNN) model based on ResNet architecture.
- Tech Stack: Python, TensorFlow, ResNet, OpenCV

Experience

Undergraduate Research Project, Austin, Texas   April 2025 - present
directed by Dr. Georgios Pavlakos
- Fine-tuned MotionGPT on SignAvatars to build a bidirectional Korean sign language translation system (Text-to-Sign & Sign-to-Text) using SMPL-X 3D motion data, custom preprocessing, and LLM-based gloss generation.

LEADERSHIP & COMMUNITY INVOLVEMENT

Undergraduate Korean Association at UT Austin, Austin, Texas   August 2024 - Current
Informatics Directors (Graphic Design)
- Managed and improved the UKA homepage using the Wix program