

# Taegang Kim

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## EDUCATION

The University of Texas at Austin | Austin, TX

May 2027

B.S. Computer Science | GPA: 3.92

## SKILLS

**Focus Areas:** Software Engineering, Full-Stack Development, End-to-End Product Development, API & Data Models, AI/ML engineering, Business & Technology Analysis, Technical Writing, Research & Innovation, Testing & Validation

**Technical Skills:** Java, Python, C, HTML, CSS, JavaScript, Django, PostgreSQL, LLMs, Prompt Engineering, [Node.js](https://nodejs.org/), Streamlit, React, Git, GitHub, Linux, Swift, SwiftUI

## PROJECTS

**Unveil** (Meta Austin Llama Impact Hackathon **Prize Winner**: "Best for Austin") | Dec 2024

- Developed and shipped an iOS app leveraging the Llama language model in collaboration with Meta to uncover hidden historical stories, recommend nearby historical sites.
- Showcased exploratory development and technical writing through a prototype app featured in Meta's global AI announcement and advanced to discussions with the Texas state government for potential large-scale adoption.
- Tech Stack: Swift, SwiftUI, Llama 3.2, Groq API, Toolhouse AI 2024

**DIY Room Designer** (Couldflare+Toolhouse Hackathon **Prize Winner**: "Most Likely to Be a Business award") | Nov 2024

- Designed a full-stack prototype room design app enabling users to generate realistic, AI-created interiors; recognized for strong commercialization potential.
- Tech Stack: Python, Streamlit, OpenAI API, ToolHouse AI.

**MoodAnalyzer: AI-Powered Emotional Wellness** | Mar 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.

**Ready2Interview** (Intel AI Hackathon Project) | Nov 2024

- Developed and handled backend data models and post-launch iteration to design a scalable AI interview assistant.
- Among 900+ participants, the project was recognized for bridging user pain points in hiring with scalable AI workflows.

**NLP Spyfall Agent** (Machine Learning and Data Science 'Long Competition' - **1st place**) | Jan 2025

- Built an LLM-powered NLP agent using together.ai API for the Spyfall game that infers hidden roles and locations through conversational reasoning, embedding search, prompt injection, and game simulation logic

**Django Posting Service** | Jan 2024

- Built and shipped a Django posting app on AWS (EC2, S3) behind Nginx/HTTPS; implemented auth, CRUD, pagination, and a media pipeline backed by PostgreSQL with safe queries and indexes.

## EXPERIENCE

**Undergraduate Researcher**, Austin, Texas | Apr 2025 - Current

directed by Dr. Georgios Pavlakos

- Designed and tested pipelines for MotionGPT sign language translation; owned preprocessing, training, debugging, and validation workflows.
- 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.

**Instructor**, Seoul, Korea | May 2023 - Current

- Provided 1:1 tutoring for 8 students; raised SAT Math scores by an average of 320 points; guided 3 out of 4 students to a 5 on AP Calculus BC; achieved 100% CBE exam pass rate for middle school students.

## LEADERSHIP & COMMUNITY INVOLVEMENT

**Undergraduate Korean Association at UT Austin**, Austin, Texas | Aug 2024 - Current

Informatics Directors (Graphic Design)

- Managed and improved the UKA homepage with Wix, supporting 350+ active users and streamlining access to event updates, resources, and member engagement.