

Taegang Kim

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EDUCATION

The University of Texas at Austin | Austin, TX
B.S. Computer Science | GPA: 3.83/4.00

May 2028

SKILLS

Technical Skills: Java, Python, C, C++, HTML, CSS, JavaScript, Django, AWS, Docker, LLMs, [Node.js](https://nodejs.org/), React, Git, Linux, Swift, SwiftUI, PyTorch, Tensorflow, scikit-learn, Streamlit

EXPERIENCE

Software Engineering Intern | *Makistry (AI-powered Product Design)* Aug 2025 - Current

- Developed an AI-to-CAD generation pipeline by fine-tuning an agent to produce CadQuery code from curated datasets, and built a synthetic data pipeline (STL, STEP, metadata) to improve model quality and error detection.
- Designed and integrated an assembly generation pipeline by implementing an assembly agent and extending backend API endpoints, enabling automated multi-part CAD model generation.

Undergraduate Researcher, Directed by Dr. Georgios Pavlakos Apr 2025 - Current

- Fine-tuned MotionGPT on SignAvatars to build a bidirectional sign language translation system, applying SMPL-X motion data + 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.

Longhorn Developers — UT Lecture Plus | Dev Team Fellow Aug 2025 - Current

- Enhanced Panopto-based lecture systems by implementing captioning features and developing AI-generated lecture transcript summaries to improve accessibility and study efficiency.

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 to uncover hidden historical stories.
- Featured in Meta's global AI announcement and discussed with the Texas state government for adoption.

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.

Ready2Interview (*Intel AI Hackathon Project*) Nov 2024

- Built a web-based AI assistant with **GPT-4**, **RAG**, **Whisper** to generate personalized interview questions.
- Recognized among 900+ participants 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

Brilla — Educational Web Platform | Backend Developer Aug 2025 - Current

- Designed and implemented **backend architecture and APIs** for an education-focused web platform, collaborating with frontend teams to deliver scalable and maintainable features

LEADERSHIP & COMMUNITY INVOLVEMENT

Undergraduate Korean Association at UT Austin Aug 2024 - Current

- Managed and improved the UKA homepage with Wix as Informatics Director, supporting 350+ users and enhancing digital collaboration and community communication.