

Hongsuh Ahn

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EDUCATION

University of Southern California

B.S in Computer Science | GPA: 3.7/4.0 (Dean's List All Semesters)

Los Angeles, CA

May 2026

EXPERIENCE

Co-Founder & Software Developer

Lily @ LavaLab (USC's Premiere Startup Incubator)

Spring 2025 – Present

Los Angeles, CA

- Co-founded an **LLM**-powered platform advancing special education by transforming IEP tracking with structured logging, **GPT**-driven student insights, and progress analytics.
- Engineering core systems for our MVP with voice session entry, real-time AI summaries/feedback, and a robust backend for **encrypted longitudinal** student data.

Software Developer

BRIDGE (Student-Founded AI Music Startup)

Spring 2025 – Present

Remote/Los Angeles, CA

- Driving core development of a **GenAI**-powered music collaboration platform, matching artists and producers based on style, mood, and creative direction.
- Architecting a personalized **recommendation** system using user interaction and profile data to optimize discovery across the collaboration funnel.
- Shaping core MVP experience across **engineering**, **product**, and **UX**, including monetization, merch, and artist exposure tools.

Full-Stack Software Developer (Student Worker)

USC University Advancement – Business Intelligence Team

Spring 2025 – Present

Los Angeles, CA

- Engineering **internal systems** for USC's institutional giving infrastructure, supporting **10+ departments** and ensuring compliance with data security protocols.
- Built custom **SPFx web parts** using **React** and **JavaScript** to power a centralized **SharePoint**-based collaboration hub.
- Developed scheduled **Python** automation scripts to sync dynamic external BI assets into internal intranet systems.

Software Engineering Intern – Data Automation

Qraft Technologies

Summer 2023

Central, Hong Kong SAR

- Scripted data automation tools using **Python**, **Selenium**, and **Jupyter** to extract, clean, and transform daily stock allocation data.
- Reduced manual overhead by building reusable **ETL pipelines** integrated into the team's asset management workflow.

PERSONAL PROJECTS

TooLate.ai | Next.js, FastAPI, FAISS, SentenceTransformers, GraphQL, TogetherAI

Spring 2025

- Built an LLM-powered platform that analyzes and compares AI startup ideas against scraped multi-source data.
- Engineered multi-threaded scrapers and GraphQL pipelines with randomized batching and rate-limit handling.
- Used RAG with FAISS + SentenceTransformers for GPT-backed feedback on idea positioning and pivots.

InsidePDF | Next.js, Tailwind, GSAP, PDF.js, Web Audio API, PlayAI TTS, Llama

Spring 2025

- Built a real-time PDF-to-speech web app for accessible reading and AI-assisted document exploration.
- Enabled voice-guided chat using PlayAI TTS and integrated a Llama-based chatbot for page-level Q&A.
- Designed responsive UI with dark/light modes, animations, and performant multi-page navigation.

Flexor | PostgreSQL, ExpressJS, ReactJS, NodeJS, WebSockets

Fall 2024

- Developed a full-stack social platform with real-time posting, alert systems, and user authentication.
- Built scalable REST APIs and database logic for 100K+ users with WebSocket-based update syncing.
- Improved engagement through polished UI/UX and reactive client-side rendering using pagination.

TECHNICAL SKILLS

Languages: JavaScript, Python, C++, Java, Swift, SQL

Frameworks & Libraries: React/Next.js, Node.js, Express, WebSockets, FastAPI

Databases: PostgreSQL, MongoDB, SQLite

Tools: Git, Docker, Supabase, Selenium, Power BI, Postman, Figma

ML & AI: LLMs, SentenceTransformers, FAISS, Hugging Face Transformers, LangChain