Hongsuh Ahn

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EDUCATION

University of Southern California   Los Angeles, CA
B.S + M.S Computer Science (Accelerated) | GPA: 3.7/4.0   *May 2027*

The Odin Project   Online
Self-paced coding bootcamp for full-stack JavaScript web development   *Spring 2024*

EXPERIENCE

Full-Stack Software Developer (Student Worker)   Spring 2025 – Present
USC University Advancement - Business Intelligence Team   *Los Angeles, CA*
- Engineering and scaling an intranet hub using SharePoint and SPFx, streamlining workflows and cross-departmental collaboration.
- Developing custom web parts with React and TypeScript to address specific business needs.
- Optimizing interactive dashboards for KPI tracking, improving data visibility across teams.

Co-Founder and Software Developer   Spring 2025 – Present
LavaLab   *Los Angeles, CA*
- Building at USC's highly competitive startup incubator (5% acceptance rate) to launch an innovative product.
- Expected to ship a functional MVP by the end of semester and pitch to a board of venture capitalists.

Software Engineering Intern – Data Automation   Summer 2023
Qraft Technologies   *Central, Hong Kong SAR*
- Engineered automated ETL pipelines using Python, Selenium, Jupyter Notebook, and VBA, reducing manual data extraction time by 80%.
- Developed interactive data visualization dashboards in Power BI to analyze asset rebalancing strategies and improve portfolio performance.

PROJECTS

TooLate.ai | *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.
- Designed prompt templates and data schema to maximize semantic relevance in startup comparisons.

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, Bash
Frameworks & Libraries: React/Next.js, Node.js, Express, Tailwind, WebSockets, FastAPI, Flask
Databases: PostgreSQL, MongoDB, SQLite
Developer Tools: Git, Docker, Selenium, Power BI, Postman, Figma
ML & AI: SentenceTransformers, FAISS, Hugging Face Transformers, OpenAI API, LangChain