

# Hongsuh (Harry) Ahn

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## EDUCATION:

**University of Southern California — B.S Computer Science + M.S Computer Science** (Accelerated)

Fall 2022 – May 2027 | Los Angeles, CA | GPA: 3.68 / 4.00

**The Odin Project** — Self-paced coding bootcamp for full-stack **JavaScript** web development

Fall 2023 – Spring 2024 | Remote

## EXPERIENCE:

**USC University Advancement** — Full-Stack Software Developer (Student Worker)

Spring 2025 – Present | Los Angeles, CA

- Developing and maintaining a **JavaScript-based** intranet platform to enhance user experience.
- Optimizing **SQL** queries for efficient data management and analytics workflows.
- Refactoring front-end components for improved performance and UI responsiveness.

**LavaLab** — Software Developer

Spring 2025 – Present | Los Angeles, CA

- Selected for USC's highly competitive startup incubator (~5% acceptance rate) to launch a full-stack web/mobile product.
- Expected to ship a functional MVP by the end of semester and pitch to a board of venture capitalists.

**Graft Technologies** — Software Engineering Intern – Data Automation

Summer 2023 | 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.

**Music Production** — Freelance Producer

Spring 2020 – Present | Remote

- Produced and sold hip-hop beats on BeatStars and YouTube, generating revenue through online sales.
- Deployed an email automation bot to reach out to up-and-coming artists, increasing outreach efficiency.
- Leveraged FL Studio 20 with VSTs, plugins, and sound engineering to create industry-quality beats.

## PERSONAL PROJECTS

**Flexor** — Full-Stack Social Platform

PostgreSQL, ExpressJS, ReactJS, NodeJS, WebSockets

- Developed a scalable **RESTful API** supporting 100,000+ potential users with optimized database queries.
- Designed and deployed a user-friendly and responsive UI/UX, improving user engagement by 30%.
- Implemented real-time notifications with **WebSockets**, ensuring instant updates across all clients.

**File Storage** — Cloud-Based File Management App

PostgreSQL, ExpressJS, EJS, NodeJS

- Implemented secure file upload/download functionality with CRUD operations and optimized file handling processes.
- Built an authentication system and structured backend architecture to manage user file permissions.

**CV Resume Generator** — Interactive Resume Builder

ReactJS, HTML, React Bootstrap

- Created a fully customizable resume generator supporting real-time content updates and PDF exporting.
- Designed a responsive interface ensuring adaptive layouts and scalable outputs.

Please see my [portfolio](#) (also linked above) for live deployments, code repos, and a full list of projects.

## SKILLS

**Languages & Frameworks:** JavaScript (React, Node.js, Express), Python, C++, SQL (PostgreSQL, MongoDB)

**Tools & DevOps:** Git, Docker, PAAS, WebSockets, Power BI

**Concepts:** Full-Stack Development, API Design, Data Structures & Algorithms, UI/UX