

# Hongsuh Ahn

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## EDUCATION

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### University of Southern California

Los Angeles, CA

*B.S Computer Science + 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

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### Full-Stack Software Developer (Student Worker)

Spring 2025 – Present

*USC University Advancement*

*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.

### Software Developer

Spring 2025 – Present

*LavaLab*

*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.

### 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.

### Freelance Producer

Spring 2020 – Present

*Music Production*

*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.

## PROJECTS

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### 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.

## TECHNICAL SKILLS

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

**Frameworks:** React, Next.js, Node.js, Express, PostgreSQL, MongoDB, WebSockets

**Developer Tools:** Git, Docker, Selenium, Power BI