

JASMINE YIP

Los Angeles, California

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Education

University of Southern California

Bachelor of Science in Computer Science

Expected May 2027

Los Angeles, CA

- Honors: Presidential Scholar (Half-Tuition Merit Scholarship); Viterbi Scholar (\$15,000 per annum)
- Activities: LavaLab (Developer), USC Climbing Team (Social Chair), TroyLabs, Trojan Scholars Society
- Relevant Coursework: Introduction to Programming (C++), Discrete Methods in Computer Science, Data Structures and Object-Oriented Design, Algorithms and Theory of Computation, Principles of Software Development, Calculus III

Experience

USC & Harvard Center for Education Policy Research

October 2025 – Present

Undergraduate Student Researcher

Los Angeles, CA

- Developing evaluation framework in **Python** to benchmark 8 commercial & open-source speech models (OpenAI Realtime API, Gemini Live, Qwen-Audio) against Wav2Vec2 baseline for phonetic error detection.

LinkedIn

May 2025 – August 2025

Software Engineer Intern

Mountain View, CA

- Built a new verification entry point and control interface for Premium Company Pages using **Ember.js** and **GraphQL**, improving the visibility and usability of the page verification flow for 20M+ admins.
- Refactored legacy verification control system in **Ember.js** into a modular, single-source layout component using a config map utility, improving maintainability and scalability across 10 verification statuses.
- Spearheaded a backend verification status toggle tool using **Java (Rest.li)** to simulate verification states for UI testing, integrating with **GraphQL** services, and reducing manual QA setup time.

Goldman Sachs

October 2024 – February 2025

Emerging Leaders Series – Engineering

Dallas, TX

- Built a simple stock prediction app with a **Python Flask** backend and a **React** frontend. Fetched historical stock data from the **Yahoo Finance API** and developed a basic neural network in **PyTorch** to make price predictions.

USC Spatial Sciences Institute

September 2024 – April 2025

Mobile App Developer & Researcher

Los Angeles, CA

- Led development of a cross-platform food-sharing app using **React Native**, **Firebase**, and **Firestore** as a part of a research project under Dr. Laura Loyola, aimed at reducing food waste on campus.
- Engineered core app features enabling verified USC students to log in, donate surplus food, locate free meals via an interactive map, reserve pickups, message users, and verify transactions with QR codes.

Sara Speech

June 2024 – July 2024

Software Engineer Intern

Los Angeles, CA

- Built a speech therapy mobile app using **React Native** and **AWS Amplify** in an Agile team under a CI/CD lifecycle.
- Developed a progress tracking component that retrieves, processes, and graphically displays a child's learning data from an **AWS Amplify** backend with **DynamoDB**, generating exportable reports in PDF and Excel formats.

Serato

December 2022 – February 2023

Software Engineer Intern

Auckland, NZ

- Developed **Serato Visualizer**, a multimedia content creation web tool for music production, serving 2,000+ active users.
- Built a responsive download progress page in **Vue.js** by parsing real-time FFmpeg muxing logs to visualize progress.
- Refactored a **JavaScript** component to detect drag-and-drop file types via Magic Bytes, preventing spoofing attacks and ensuring 100% accuracy; implemented unit and integration tests in **Jest** to validate edge cases.

Projects

Software Developer

February 2024 – May 2024

LavaLab (USC's premiere product incubator)

Los Angeles, CA

- Collaborated with a team of four to develop and pitch Sequence, a no-code, choice-driven story writing and reading tool.
- Developed a whiteboard tool for writers using **React.js** and the React Flow library, allowing them to create and edit movable text blocks, adjust connectors to map out story lines, and publish stories for readers to discover.

Technical Skills

Languages: Python, C++, Java, JavaScript, TypeScript, HTML/CSS

Frameworks/Libraries: React.js, Node.js, Express.js, Ember.js, Flask, PyTorch

Technologies: Firebase, MongoDB, AWS (Amplify, S3, DynamoDB), Git, GitHub, CI/CD