

JASMINE YIP

Los Angeles, California

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Education

University of Southern California

Expected May 2027

Bachelor of Science in Computer Science

Los Angeles, CA

- Honors: Presidential Scholar (Half-Tuition Merit Scholarship); Viterbi Scholar (\$15,000 per annum); Dean's List (2x)
- Activities: LavaLab (Developer), USC Climbing Team (Social & DEI 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

LinkedIn

May 2025 – August 2025

Software Engineer Intern

Mountain View, CA

- Built an end-to-end verification flow for Premium Company Pages, including **Ember.js** modals with client-side state management and input validation, and integrated **GraphQL** APIs to connect with backend verification infrastructure.
- Designed and implemented a scalable **Java** microservice using **Rest.li** to process business verification requests, integrating server-side validation, rate limiting, and async event handling in **Apache Kafka**.
- Engineered an internal testing tool to override backend API responses for 10 status screens, reducing UI testing time.
- Refactored codebase by removing deprecated feature flags for fully rolled-out features and updating legacy test cases.

USC Spatial Sciences Institute

September 2024 – April 2025

Mobile App Developer & Researcher

Los Angeles, CA

- Led the development of a campus-wide food-sharing app using **React Native**, **TypeScript**, **Firebase**, and **Expo**.
- 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.

Goldman Sachs

October 2024 – February 2025

Emerging Leader- Engineering

Dallas, TX

- Developed a **Java** backend for a Mutual Fund Calculator, integrating live financial metrics including beta, S&P 500, risk-free rate to model fund returns via CAPM — improving prediction accuracy by 30%.
- Collaborated with 7 developers using **Spring Boot**, **Next.js** & **MongoDB** to build and deploy the fullstack web app.

Sara Speech

June 2024 – July 2024

Software Engineer Intern

Los Angeles, CA

- Developed a speech therapy mobile app using **React Native (TypeScript)** in an Agile team under a CI/CD lifecycle.
- Engineered an interactive speech-based Wordle game with animated gameplay elements using Lottie and Gesture Handler and real-time pronunciation feedback using **TensorFlow.js**.
- Created 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 track encoding state.
- 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.
- Implemented an explore page with search, sort, filter, and pagination features, leveraging **Firestore** for data storage and **Firebase Cloud Functions** for dynamic data queries.

Technical Skills

Languages: Python, C++, Java, JavaScript (ES6+), TypeScript, HTML/CSS

Frameworks/Libraries: React.js, React Native, Node.js, Express.js, Ember.js, TensorFlow.js

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