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 Chair), TroyLabs, Trojan Scholars Society
- Relevant Coursework: Introduction to Programming (C++), Professional C++, Discrete Methods in Computer Science, Data Structures & Object-Oriented Design, Algorithms & Theory of Computation, Principles of Software Development

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.

Goldman Sachs   **October 2024 – February 2025**
Emerging Leaders Series - Engineering   *Dallas, TX*
- Developed backend services and **RESTful APIs** for a Mutual Fund Calculator, integrating Newton Analytics and FRED APIs to fetch beta values, historical S&P 500 returns, and risk-free rates—improving prediction accuracy by 30%.
- Collaborated with 7 developers using **Spring Boot**, **Next.js** & **MongoDB** to build and deploy the fullstack web app.

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**, **TypeScript**, **Expo**, and **Firebase**.
- Integrated **Google Maps API** for geolocation services, allowing users to post food donations or locate nearby food, make reservations, pick up and verify with a QR code, and direct message through a **WebSocket** live chat.
- Built web dashboard to visualize donation analytics with **Chart.js** for interactive charts and Firebase for live updates.

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**.
- Engineered a progress tracking dashboard screen 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.
- Enabled real-time collaborative editing with **Firestore** listeners and **Firebase Auth**, syncing multi-user updates live.

Technical Skills

Languages: Python, C++, Java, JavaScript (ES6+), TypeScript, HTML/CSS, SQL, GraphQL
Frameworks/Libraries: React.js, React Native, Node.js, Express.js, Ember.js, TensorFlow.js
Technologies: Firebase, MongoDB, AWS (Amplify, S3, DynamoDB), Expo, Git, GitHub, CI/CD