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); Viterbi Dean's List
- Relevant Coursework: Artificial Intelligence: Principles & Foundations, Computer Systems, Data Structures & Object-Oriented Design, Algorithms & Theory of Computation, Principles of Software Development, Professional C++

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**.
- 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 by 70%.

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%.
- Worked with 7 developers using **Spring Boot**, **Next.js** and **MongoDB** to build and deploy the full-stack website.

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**.
- Fine-tuned a **YOLOv8** model and deployed it as a **Dockerized FastAPI** microservice on **Google Cloud**, identifying food items and estimating portion sizes from uploaded images, improving labeling accuracy by 40%.
- 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*

- Developed a speech therapy mobile app using **React Native (TypeScript)** in an Agile team under a CI/CD lifecycle.
- Fine-tuned a **Wav2Vec 2.0** speech recognition model in **Python** using **Hugging Face Transformers** and **Librosa** for data preprocessing and augmentation; improving pronunciation detection accuracy by 23%.
- 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.
- Engineered a **JavaScript** component to detect drag-and-drop file types via Magic Bytes, ensuring 100% accuracy rate.

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
Frameworks/Libraries: React.js, React Native, Node.js, Express.js, Ember.js, TensorFlow.js
Technologies: Firebase, MongoDB, AWS (Amplify, S3, DynamoDB), Flask, Docker, Jest, Git, GitHub, CI/CD