

Vihan Raj

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EDUCATION:

University of Southern California

Los Angeles, CA

Viterbi School of Engineering | Bachelor of Science: Computer Science

May 2024

- Academic Honors: Viterbi Dean's Honor List
 - Relevant Coursework: Data Structures (C++), Software Development (Java, JavaScript, SQL, HTML, CSS), Full Stack Web Development (JS, SQL, HTML, CSS, Bootstrap), Software Engineering (Java, Android), Intro to Internetworking (C++), Intro to Computer Systems (C), Video Game Programming (C++), Intro to Artificial Intelligence (Python), Cross Platform App Development (Flutter), Intro to Embedded Systems
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WORK EXPERIENCE:

Productiv Inc.

Palo Alto, CA

Software Engineer Intern – Full Stack

May 2023 – August 2023

Relevant technology: Node.js, Vue.js, JavaScript, AWS, Confluence, Jira, Git, TypeScript, Jest, Cypress, RESTful API

- Added contract data corruption detection and change limiting to ensure data security for 90+ customers
- Created new UI components, developed SCIM endpoints, and extended existing user permissions structures to allow for customizable permissions management in product and with Okta.

Haven

Los Angeles, CA

Full Stack Engineer

January 2023 – April 2023

Relevant technology: Next.js, Tailwind CSS, Supabase, Git, PostgreSQL

- Founded a startup with three other USC students aimed at simplifying design and supply process for home renovations. Winner of USC TroyLabs DEMO 2023 pitch competition with a prize of \$4500

Productiv Inc.

Palo Alto, CA

Software Engineer Intern – Full Stack

June 2022 – December 2022

Relevant technology: Node.js, Vue.js, JavaScript, AWS, Confluence, Jira, Git, Jest, Cypress, RESTful API

- Developed a new integration with Fyle to pull in and parse expenses leveraging REST APIs and OAuth2. Standardized expense structure and usage for hundreds of thousands of expenses
 - Implemented contract data change detection and validation alerting deployed to 100+ customers
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PROJECTS:

Raspberry PI Audio Hub (C++, Python)

- Built and coded a device using a raspberry pi to act as a music routing hub between Spotify connect, Bluetooth, and an analog input from a vinyl player.

Portal (C++, SDL)

- Simplified remake of the popular game developed by Valve. Features five levels with a custom physics engine.

MotionMuse (Next.js, Tailwind CSS, TensorFlow)

- Built a web-app with two teammates during the LA Hacks hackathon to provide dance and motion teaching using TensorFlow pose estimation.
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COMMUNITY PARTICIPATION:

USC Racing

Los Angeles, CA

Electronics Team Member

September 2021 – December 2022

- Implementation of a new dashboard, live telemetry, and a newly designed Power Distribution Module (PDM).
- Primarily responsible for writing the software on the Teensy for the PDM, a controller which determines the distribution of power to the car's peripherals based on sensor measurements.

USC Theta Tau

Los Angeles, CA

Member | Social Chair

November 2021 – Present | May 2022 – December 2022, May 2023 - Present

- Theta Tau is the nation's oldest and largest professional engineering society, aimed at the development of its members through the pillars of service, professionalism, and brotherhood.
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SKILLS + INTERESTS

Languages & Software: C++, Java, JavaScript, Python, TypeScript, Vue.js, Vuex, AWS, Node.js, Git, Docker, Postman, Tailwind CSS, Next.js, HTML, CSS, Jira, Confluence, React, Jest, Cypress, PostgreSQL, RESTful API,

Other Skills & Interests: Hindi, Bangla, Saxophone, Piano, Music history, Volleyball, Cricket, Cryptocurrency