

Vihan Raj

(310) 774-1234 | vihanraj@usc.edu | <https://www.linkedin.com/in/vihan-raj/> | vihanraj.com

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 app development), Intro to Internetworking (C++), Intro to Computer Systems (C), Video Game Programming (C++), Intro to Artificial Intelligence (Python), Cross Platform App Development (Flutter)
-

WORK EXPERIENCE:

Productiv Inc

Palo Alto, CA

Software Engineer Intern – Full Stack

May 2023 – August 2023

- 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.
- Relevant technology: NodeJS, Vue, JavaScript, AWS, Confluence, Jira, Git, Typescript, Jest, Cypress.

Haven

Los Angeles, CA

Full Stack Engineer

January 2023 – April 2023

- 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
- Relevant technology: NextJS, Tailwind CSS, Supabase (Storage & Postgres DB), Git.

Productiv Inc.

Palo Alto, CA

Software Engineer Intern – Full Stack

June 2022 – December 2022

- 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
 - Relevant technology: NodeJS, Vue, JavaScript, AWS, Confluence, Jira, Git, Jest, Cypress.
-

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 (NextJS, Tailwind CSS)

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

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 for the Teensy on 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.
-

SKILLS + INTERESTS

Languages & Software: C++, Java, JavaScript, Python, Typescript, Vue, Vuex, AWS, NodeJS, Git, Docker, Postman, Tailwind CSS, NextJS, HTML, CSS, Jira, Confluence

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