

# ROSHAN SANJEEV

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## EDUCATION

**B.S. in Computer Science and Engineering** - University of California, Merced (Merced, CA)

**GPA: 3.80**

**Certificates:** Meta Back End Developer Professional Certificate

**Coursework:** Data Structures(C++), Computer Organization & Assembly Language (C, MIPS), Linear Algebra & Differential Equations, Discrete Mathematics, Calculus 3 (Vector/Multivariable), Probability and Statistics

## SKILLS

- **Languages:** C/C++, Python, Java, JavaScript, MySQL, HTML/CSS, MIPS Assembly, Latex
- **Frameworks:** Flask, Django, React, OpenCV, MediaPipe, Bootstrap, Flutterflow
- **Tools:** Git, Docker, AWS EC2, Render, Firebase, Supabase, Figma, WebSockets, WebRTC, Bash, SSH, SQLite
- **Methodologies:** REST APIs, OOP, Agile, Scrum, DevOps, CI/CD, Responsive Design

## EXPERIENCE

**Full-Stack Engineering Internship | Flutterflow, Firebase, APIs** - Plant Culture Systems (Remote)

July 2024 - October 2024

- Built the **AI landing page** for the mobile application, [OurGarden](#), utilized by **400+** users with **frontend/backend** integrations using **Flutterflow**.
- Spearheaded image analysis feature as **A.I team lead** in an **AGILE scrum** project guiding development.
- Utilized **Firebase database** for user chat management and recommended questions.

**Web Development Internship | Django, SQL, HTML, CSS, JavaScript, Bootstrap** - PosTrue (Remote)

March 2024 - June 2024

- Developed a **Django**-based website to display analytics from a posture-sensing device, utilizing a **SQL database** to store and manage user data and reminders efficiently.
- Created a responsive **frontend** to display analytics utilizing **HTML, CSS, JavaScript, and Bootstrap**.
- Designed to display postural analytics over time with data visualizations, ensuring a seamless user experience.

## HACKATHONS

**Fullstack Developer | Flask, MediaPipe, OpenCV, DeepLearning, Docker, AWS EC2** - SASEHacks (Merced, CA)

April 2025

- Won **1st place** for developing [PoseVision](#), an **exercise analysis tool** utilizing **deep learning** to deliver real-time feedback and injury prevention techniques from user-uploaded videos.
- Built a **Python** algorithm using **MediaPipe** and **OpenCV** to calculate joint angles and detect squat asymmetries.
- Compared left and right leg movements to flag uneven squats with red overlays and timestamped feedback.
- Used **Flask** to process uploads, run detection, and display results in a clean, responsive UI.

**Fullstack Developer | HTML, CSS, JavaScript, APIs** - HackMercedX (Merced, CA)

Mar 2025

- Awarded **Alumni Prize** out of **120** participants for developing [Credit Compass](#), a long-term personalized **credit card recommendation system**.
- Built with **Flask** and deployed to **AWS EC2** using **Docker** with a responsive **HTML/CSS/JavaScript frontend**.
- Developed **CelesteAI**, an AI chatbot that provides real-time financial insights and remembers user preferences.
- Designed an interactive **vertical timeline UI** utilizing **Letta API** to visualize long-term credit strategies.

## PROJECTS

**Fullstack Developer | React, Flask, Websockets, WebRTC** - OmniNote

April 2025

- Built [OmniNote](#), a **real-time collaborative text editor** enabling multiple users to co-author documents with presence indicators and rich text formatting.
- Used native **WebSockets** to manage **live updates** and **content syncing** between frontend and in-memory backend.
- Implemented a **Flask** server to handle user sessions, socket communication, and version history tracking.
- Designed a responsive **React** interface with seamless user onboarding and intuitive formatting tools.

## COMMUNICATION/LEADERSHIP

**Executive Board, Recruitment** - Engineering Fraternity Theta Tau (Merced, CA)

March 2024 – Present

- As recruitment Co-Chair, led a committee of **9**, managing a **~\$2000 budget**, conducting **weekly meetings**, and planning for **3 months** to organize recruitment events.
- Organized **5 class presentations** with an outreach of **1000+** students with daily information tabling.
- Lead one week of recruitment events with **50+** attendees daily with icebreakers, activities, and Q&A sessions.
- Secured **23** interviews and took the initiative to write a detailed instructional manual for future chairs to follow.

**Entrepreneur** - Personal Training Business Owner (Hybrid)

September 2022 – December 2023

- Coached **20+** clients on fat loss and muscle-building strategies, creating tailored fitness plans for individual goals.
- Adapted training techniques to suit a diverse client base aged **16-40**, addressing unique fitness levels.
- Simplified complex training concepts into easy-to-follow steps, enhancing client understanding and motivation.

**INTERESTS:** Travel, Weight Lifting, Golf, Cooking