

ROSHAN SCOTT SANJEEV

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EDUCATION

B.S. in Computer Science & Engineering | *GPA: 3.71* - University of California, Merced (Merced, CA) *Exp: May 2027*
• **Relevant Coursework:** Applied Statistics & Machine Learning, Algorithm Design & Analysis (C/C++), Data Structures(C++), Computer Organization & Assembly Language (C, MIPS), Linear Alg. & Differential Eqs., Linear Analysis

EXPERIENCE

eBay - Product Management Co-Op, *Collectibles* *Dec 2026*

- Won company hackathon against 72 competing interns, presenting winning solution directly to eBay CEO & escalating the concept for development with marketing product leadership.
- Directing **0-to-1** A.I product development lifecycle from discovery/design to technical development, GTM strategy, & launch.
- Collaborated with **cross-functional** UXR, engineering, and AI teams to define requirements, technical feasibility, and roadmap.

Mi3 Lab - Machine Learning Research Intern Jun 2025 - Present

- Published & presented [research](#) at 2 conferences, [CVPR](#) & [ICCV](#), for **VLLM** able to generate real-time navigation instructions for users with visual impairments in complex urban environments.
- Outperformed GPT-4o baseline by 43.84% via **fine-tuning** VideoLLaMa3-7B, prompt engineering, and iterative testing.
- Translated complex technical findings to industry professionals & developed [data visualisations](#) with Pandas & Matplotlib.

University of California, Merced - Software Engineering Intern, Enterprise Application Services *Aug 2025 - Jan 2026*

- Empathized with stakeholders to build web application serving ~2,500 users daily, driving an 80% increase in staff productivity.
- Developed **REST APIs** for **SaaS** web app, integrating Microsoft **Azure Entra ID** (OAuth 2.0 SSO), & **TLS encryption**.
- Engineered **Flask/Redis** backend & **React** frontend, optimizing performance & reliability, resolving **Jira** tickets in **Agile** sprints.

Plant Culture Systems(Startup) - Product Development Intern *Jul 2024 - Oct 2024*

- Designed & developed the AI landing page for [OurGarden](#), an app promoting sustainable local agriculture for 500+ users.
- Led A.I. subteam, translating stakeholder feedback to technical needs, improving engagement metrics by ~50% in **Agile** sprints.
- Deployed **ChatGPT API** & **Firebase** & created **Figma** mockups based on user requirements to deliver an end-to-end solution.

PosTrue - Software Engineer Intern *Mar 2024 - Jun 2024*

- Gathered customer needs for **Django** posture analytics web application, translating them into technical specifications.
- Created a **PostgreSQL** analytics dashboard and frontend to visualise real-time sensor data & deliver actionable posture insights.

LEADERSHIP & COMMUNICATION

Perplexity - AI Campus Ambassador *Sept 2025 - Dec 2025*

- Developed & executed a Go-to-Market (GTM) strategy for "Comet" (AI agentic browser) to drive adoption among students.
- Synthesized user feedback and engagement metrics from presentations to refine messaging, resulting in 150+ engagements.
- Collaborated with Perplexity GTM team to align on-campus activation events with broader product growth goals.

Professional Engineering Fraternity, Theta Tau - Executive Board/Recruitment *Mar 2024 - Present*

- As recruitment chair, led a committee of 9 with a \$2,000 budget, delivering presentation events to 1,000+ prospective members.
- Drove 70% chapter growth with strategic event planning (**50+** daily attendees, 5 events), documenting strategies for future cycles.
- As Executive Board, oversaw chapter operations & collaborated with regional executives in monthly meetings.

HACKATHON WINS & PROJECTS

[Clock-In](#) | Meta Ads, REST, TypeScript, Next.js, React, PostgreSQL, Hono, Drizzle ORM, Supabase, Docker, Tailwind, CSS

- Engineered full-stack **SaaS** productivity web-app, managing end-to-end product operations from development to advertising.
- Executed marketing campaigns via **Meta Ads Manager**, conducting A/B testing on ad creatives w/ data-driven hypothesis testing.
- Managed the product lifecycle & user acquisition funnel, utilizing analytics to refine audience segmentation & drive growth.

[PoseVision](#) | Python, AWS EC2, React, Docker, Flask, Javascript, MediaPipe, OpenCV, Git - SASEHacks

- Won 1st place at SASEHacks in a team of 3, for building an injury prevention tool utilising **deep learning & pose estimation** from user-uploaded videos for the squat.
- Developed **Python** script with **MediaPipe** & **OpenCV** to detect squat asymmetries & enhance **UI/UX** with visual feedback.
- Containerised **Docker** pipeline deployed on **AWS EC2**, with **Flask** integration using **git** (version control) to display results.

[Credit Compass](#) | Python, JavaScript, React, REST API, HTML, CSS, Flask - HackMercedX

- Won Alumni Prize in a team of 3, for developing an AI-powered platform that delivers long-term, personalised credit card recommendations by leveraging real-time internet data.
- Built a **REST** pipeline with the **Letta AI API**, **JavaScript** & **HTML/CSS** to display the personalised credit timeline in **Flask**.

SKILLS

- **Product:** Agile/Scrum, UI/UX, User Research, Software Development Lifecycle, Technical Documentation, Cross-functional Leadership
 - **Tools/Platforms:** Azure, AWS, Jira, Git, Docker, PostgreSQL, Claude Code, Figma, Microsoft Suite, Linux, Redis, Firebase
 - **AI/ML:** Computer Vision, HuggingFace, AI Agents(Crew AI), PyTorch, Pose Estimation, Voice Agents(Vapi), Reinforcement Learning
 - **Languages:** Python, Java, C/C++, JavaScript, SQL, HTML/CSS, MIPS Assembly, Flask, Django, React, Pandas, Matplotlib
- Interests:* 1000+ hours each: (Valorant, Apex, & Marvel Rivals) | 12 handicap Golfer | Gym (Science based lifter) | EDM, Rap, Pop