

ROSHAN SCOTT SANJEEV

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EDUCATION

B.S. in Computer Science & Engineering | **GPA: 3.79** - University of California, Merced (Merced, CA)

Expected: Dec 2026

- Certificates: Meta Back End Developer Professional Certificate

• Relevant Coursework: Human Computer Interaction, Data Structures(C++), Algorithm Design & Analysis (C/C++), Full-stack Web Development, Linear Algebra & Differential Equations, Linear Analysis, Vector Calculus

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
- Frameworks: Flutterflow(low-code), Flask, Django, React, Pandas, Matplotlib, MediaPipe, OpenCV, Bootstrap

EXPERIENCE

Product Development Intern | **Agile, Python, Azure, APIs, UI/UX** - UC, Merced

Aug 2025 - Present

- Emphasized with stakeholders to build web applications serving ~2,500 users daily, resolving **Jira** tickets in **Agile** sprints while driving an 80% increase in productivity for staff.
- Led cross-functional coordination between dining staff, software administrators, and development team to gather requirements and iterate on OAuth 2.0 authentication integration.
- Documented user flows and technical specs for **Flask/Redis** backend with **Nginx & Gunicorn** paired with **React** frontend.

Machine Learning Research Intern | **Computer Vision, Technical Writing, User Research** - Mi3 Lab

Jun 2025 - Present

- Co-authored research **paper**, published & presented at **CVPR 2025** & **ICCV 2025** conferences for our **VLLM**, which generates accurate real-time navigation instructions for users with visual impairments in complex urban environments.
- Outperformed GPT-4o baseline by 43.84% via **finetuning** VideoLLaMa3-7B and through iterative testing.
- Translated complex technical findings to industry professionals & developed **data visualisations** with Pandas & Matplotlib.

Product Manager/App Dev. Intern | **User Research, UI/UX, APIs, Agile, Figma** - Plant Culture Systems

Jul 2024 - Oct 2024

- Designed & developed the AI landing page for **OurGarden**, using **Flutterflow**, integrating & prioritizing **UI/UX** feedback to enhance targeted user engagement for 500+ users.
- Led image analysis feature as A.I. subteam lead, improving engagement metrics by ~50% in **Agile** sprints with customers & users.
- Deployed **ChatGPT API & Firebase** based on user requirements & created **Figma** mockups to deliver end-to-end solution.

Forward Deployed Software Engineer Intern | **User Research, UI/UX, Python, PostgreSQL, JS** - PosTrue

Mar 2024 - Jun 2024

- Collaborated with customers to define requirements for posture analytics platform, translating ergonomic feedback needs into technical specifications for Django web application.
- Designed **UI/UX** with **HTML, CSS, JavaScript, & Bootstrap**, conducting usability testing while following brand standards.
- Created a **PostgreSQL** analytics dashboard to visualise real-time sensor data and deliver actionable posture insights.

LEADERSHIP & COMMUNICATION

AI Campus Ambassador - *Perplexity (Merced, CA)*

September 2025 - Present

- Developed & executed responsible AI adoption marketing strategy delivering tailored **presentations** to 400+ students across campus clubs and classes working toward 500 sign-ups to secure Perplexity hackathon sponsorship.

Hackathon Organiser - *HackMercedX (Merced, CA)*

June 2025 - Present

- Managed hackathon website on Backend team & while pursuing company sponsorships & participant outreach on Outreach team.

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

Mar 2024 - Present

- As recruitment chair, led a committee of 9, with \$2,000 budget, organizing presentations to 1,000+ students.
- Increased chapter growth by 70% through strategic event planning(50+ daily attendees, 5 events) while documenting strategies.
- As Executive Board, oversaw chapter operations & presented to regional executives preparing to run for President next semester.

HACKATHON PROJECTS

AI Product Developer | **Python, React, AWS EC2, Linux, Docker, Flask, Javascript, MediaPipe, OpenCV, Git** - SASEHacks

- Won 1st place for developing **PoseVision** with a team of 3, used for injury prevention in the squat using **deep learning**.
- Defined product vision from personal training background and coordinated technical implementation, including Python/Media pipe script to detect squat asymmetries & enhance **UI/UX** with visual feedback deployed on **AWS EC2**.

AI Product Developer | **JavaScript, React, REST API, HTML, CSS, Flask** - HackMercedX

- Won Alumni Prize for developing **Credit Compass** in a team of 3 leading feature design and vision for an AI-powered platform that delivers long-term, personalised credit card recommendations, 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**.