

Shanmukhi Sai Nandiraju

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Computer Science undergraduate at UC San Diego with experience in software engineering, AI systems, cloud-based tools, and AI governance. Skilled in React, React Native, Next.js, Node.js, PostgreSQL, Firebase, and AWS AI services, with hands-on exposure to NIST AI RMF-aligned governance for predictive AI models.

EDUCATION

University of California, San Diego – San Diego, CA

Expected Dec 2026

B.S. in Computer Science | GPA: 3.63/4.00

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Database Systems, Machine Learning, Computer Networks, Computer Vision, Data Science, Modern Cryptography

EXPERIENCE

1Cell.AI – Foster City, CA

Jun 2025 – Sep 2025

Software Engineering Intern, AI Systems

- Worked on software engineering, AI tooling, and governance initiatives for a healthcare AI company building prediction models and data-driven applications.
- Supported AI governance efforts aligned with the NIST AI Risk Management Framework by documenting model risks, intended use, data considerations, monitoring needs, and responsible AI controls.
- Organized governance artifacts for AI prediction models, including risk mapping, model-use context, lifecycle considerations, and evidence needed for internal review.
- Evaluated Amazon HealthOmics for scalable AI and data workflows, including cloud-based orchestration, large-scale pipeline feasibility, and data processing use cases.
- Built a full-stack mobile inventory management application using React Native, Node.js, Express, and PostgreSQL to improve internal lab and operations workflows.
- Integrated camera-based input and image-processing workflows using AWS Rekognition to support image capture, storage, and metadata handling.
- Developed a shipment tracking web application using Next.js and PostgreSQL, integrating FedEx API data to surface delivery updates and improve logistics visibility.

Automatiq.io – Foster City, CA

Sep 2025 – Dec 2025

Platform Engineering Resident, Frontend

- Built production-ready user interfaces for onboarding flows, account settings, dashboards, and workflow-driven platform experiences using React and modern JavaScript.
- Developed reusable front-end components with clean state management, API integration, and styling consistency aligned with Figma design specifications.
- Implemented interactive UI features including lightbox modals, workflow tabs, dynamic forms, and real-time data persistence.
- Debugged and resolved critical front-end issues to improve application stability, usability, and launch readiness.

PROJECTS

HealthMadeEasy – ER QuickPass – San Diego, CA

Apr 2025

Mobile Healthcare Application

- Built a React Native mobile application designed to streamline emergency room check-in by allowing patients to securely share key medical and demographic information through QR-based access.
- Developed secure Firebase-backed workflows with a focus on usability, accessibility, and healthcare data privacy considerations.
- Collaborated in a fast-paced team environment during DiamondHacks 2025, contributing to product design, mobile implementation, and user workflow definition.

Tech: React Native, Firebase, JavaScript, Xcode, Expo

ACTIVITIES AND LEADERSHIP

Coding Society, Sancta Maria International School – Hyderabad, India

Jul 2022 – Jan 2023

Leader

- Led a 25-member coding club focused on algorithms, Python programming, and project-based learning.
- Mentored students on programming fundamentals, collaborative development, and problem-solving.

TECHNICAL SKILLS

Languages: JavaScript, Python, Java, HTML/CSS, SQL

Frontend & Mobile: React, React Native, Next.js, Expo, Xcode

Backend & Databases: Node.js, Express, PostgreSQL, Firebase

Cloud & AI Tools: AWS Rekognition, Amazon HealthOmics

AI Governance: NIST AI Risk Management Framework, AI model risk documentation, responsible AI controls, model lifecycle documentation

Tools: Git, GitHub, Figma, Canva