

Rani Saro

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Motivated Software Developer with hands-on experience in full-stack web application development and a strong foundation in Artificial Intelligence, Data Structures and Algorithms, and Computer Architecture. Proven ability to collaborate effectively in team environments to deliver innovative solutions.

EDUCATION

University of California, Davis

Projected Dec. 2025

Bachelor of Science in Computer Science

Grossmont College

June 2023

Associate in Science for Transfer in Computer Science

SKILLS

- Languages: Java, JavaScript, TypeScript, Python, SQL
- Tools: Git, GitHub, Visual Studio Code, MacOS, Node.js, Express.js, React, Next.js, PostgreSQL, Postman, Jira, Slack, FastAPI, Firebase, Jupyter Notebook
- Relevant Coursework: Data Structures, Machine Architecture, Introduction to Artificial Intelligence

EXPERIENCE

Senior Software Developer

ASUCD Innovation & Research Lab

Oct. 2024 – Present

- Directed weekly hack nights—a 3-hour, low-stakes hackathon for UC Davis students to develop personal projects—with an average of 60 participants, increasing student project completion by 70%.
- Assisted participants with technical challenges across ideation, debugging, and deployment; created new weekly demo projects to showcase practical solutions and techniques.

Software Engineer

AggieWorks

Oct. 2024 – Present

- Built a course recommender tool for 38,000 students, leveraging survey data on students' preferences for course selection to support more informed class decisions.
- Collaborated with designers and backend engineers using Agile practices, refining iterative development cycles and reducing task completion time from one week to four days per sprint phase.
- Developed a sentiment analysis tool that analyzes evaluations from 4,800 UC Davis professors, extracting actionable insights from course data and improving course information quality by 35% for students.

Software Developer

CodeLab

Oct. 2023 – June 2024

- Collaborated in a team of 8 using tools like Jira and Slack to create Espresso, a web app with Quizlet inspired UI and an Anki inspired algorithm, to support UC Davis students' study more effectively.
- Proficiently designed front-end React components and back-end REST API routes and endpoints using the PERN stack averaging a pace of 2 tickets completed each week.
- Participated in Agile-style development sprints alongside designers and fellow developers to ensure high quality work was delivered on time, consistently.

PROJECTS

Occurrence Trivia (Typescript)

- Independently engineered a full-stack trivia app for 35+ active users by using Firebase and Next.js, resulting in real-time database interaction, dynamic data handling, and secure Google authentication.
- Developed a custom daily challenge feature with dynamic scoring system and real-time profile tracking, enhancing user retention through a daily leaderboard and progress history.

Detecting Heart Disease with Supervised Learning (Python, JavaScript)

- Supervised two developers to create a user-friendly React interface, enhancing user experience and successfully integrating it with FastAPI backend endpoints.
- Created and trained a random forest model during data exploration in Jupyter Notebook, laying the groundwork for improved heart disease detection accuracy and enabling further model optimization.