

# Rani Saro

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Software Developer experienced in full-stack web application development within team environments. Proficient in designing and implementing REST APIs for microservices architecture. Completed coursework in areas such as Artificial Intelligence. Eager to deepen expertise in web development, mobile development, and machine learning.

## 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

### 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.
- Managed rotating between frontend and backend, developing features, utilizing engineering best practices for my fellow developers to pick up on where I left off quickly and effectively.

## PROJECTS

### Occurrence Trivia (Typescript)

- Independently engineered a full-stack trivia app for 15+ 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.
- Deployed and scaled the app on Vercel, leveraging user feedback to fix bugs and add new features, leading to increased user engagement.

### 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.

### Todo List (Python, Typescript, SQL)

- Developed a full-stack To-do app with authentication using Next.js and FastAPI, enabling efficient task management with CRUD functionalities.
- Implemented bcrypt for secure user authentication, deployed frontend on Vercel and backend on Render, optimizing server response times and ensuring persistent data storage with PostgreSQL.
- Independently designed, built, and deployed the project, resolving CORS issues and migrating data from SQLite to PostgreSQL, enhancing data reliability and application performance.