

Avni Doshi

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US Citizen

EDUCATION

University of California Irvine (UC Irvine)

09/2023 – Current

Bachelor of Science in Information Science, Minor in Health Informatics

EXPERIENCE

Software Development Engineer Intern, Homescreen AI

06/2025 – 09/2025

- Built a production-ready React UI from Figma prototypes for an AI-powered hospitality platform, used by 1,000+ users to support guest services, alerts, employee permissions, and analytics workflows.
- Developed reusable React components and integrated back-end APIs to ship scalable full-stack features across multiple modules.
- Implemented AI-driven automation for personalized guest notifications and concierge actions such as early check-in, room assignment, and cleaning requests, reducing manual workflow time by 30%.

Data Visualization Lead, UC Irvine EcoGovLab

06/2025 – 08/2025

- Led an 8-week internship cohort developing a data visualization application that ingested environmental science data from public Web APIs to analyze weather trends over time.
- Taught Python, R, SQL, and Matplotlib while guiding interns on data pipelines, visualization design, and analytical problem-solving.

Software Development Engineer Intern, Quadrant Technologies

07/2024 – 08/2024

- Developed and deployed a full-stack women's healthcare application, Cycles, using React and Azure SQL Database to process user health data and generate personalized cycle and pregnancy predictions for 250+ users; won 2nd place out of 13 teams for product impact and technical execution.
- Built the application with React, REST APIs, Azure SQL Server, and Azure DevOps, applying Agile workflows and end-to-end SDLC practices.
- Implemented ETL processes to extract, transform, and load (ETL) raw user health data. Validated data quality and ensured accurate data ingestion using Azure Data Factory and Azure Databricks.
- Led front-end development of the web application using React, deployed using Azure DevOps (CI/CD pipeline).

Undergraduate Researcher, UC Irvine EcoGovLab

02/2024 – Current

- Developed a computer science curriculum for Spanish-speaking middle and elementary school students through GREEN-MPNA, expanding computer science access in underserved schools.
- Created a Java-based curriculum covering variables, control statements, loops, data structures, and algorithms through project-based lessons.
- Translated materials into Spanish and mentored students on careers in software engineering, data science, cybersecurity, game development, and AI.

PROJECTS

Cycles | React, REST API, Azure SQL Server, Azure DevOps

Developed during internship at Quadrant Technologies

- Built a full-stack women's healthcare web application that used predictive algorithms and individual health data to generate personalized cycle and pregnancy forecasts.
- Designed the system with a React front-end, REST API back-end, and Azure SQL Server database, with delivery managed through Azure DevOps.

Smart Health Finance | HTML, CSS, JavaScript, SQL, Render, GPT-4.1-mini powered

- Developed a full-stack responsive web application enabling users to compare healthcare spending scenarios, plan HSA usage, and make cost-aware decisions through interactive budgeting applications.
- System built with a SQL backend, integrating a GPT-4.1-mini context-aware chatbot with session-based conversation memory that leverages user healthcare preferences and budget data to generate personalized recommendations on insurance plan selection, HSA contributions, and expected out-of-pocket costs for 300+ users, reducing decision making time by 20%.

Recipe Finder App | React, Node.js, Express, REST APIs, SQL

- Built a full-stack recipe discovery platform with ingredient-based search, enabling 200+ users to find and save recipes using real-time filtering and personalized recommendations.
- Implemented back-end logic and integrated APIs to manage user preferences and saved recipes, built AI-assisted recommendations and category-based browsing, reducing time to find relevant recipes by 25%.

TECHNICAL PROFICIENCY

Languages: Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML/CSS, OCaml, Rust, R

Technologies/Frameworks/Libraries: React, Next.js, Node.js, Express, Flask, REST APIs, MySQL, Azure, PyTorch, Scikit-learn, NumPy, Matplotlib, Selenium, OpenAI API, Google Maps API

Developer Applications: Git, GitHub, Docker, CI/CD, VS Code, PyCharm, IntelliJ, Eclipse, Visual Studio, Jira, Notion, Figma, Azure DevOps, Render