Roshan Raj

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EDUCATION

University Of California, Irvine | Computer Science B.S.   Expected June '27

- 3.735 GPA, Dean's Honor List
- Research Assistant on the TIPPERS project led by Dr. Sharad Mehrotra.
- Technology Intern at Venture Capital Society @ UCI
- Relevant Coursework: Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Data Mining, Information Retrieval, Formal Languages and Automata, Software Testing, Boolean Logic and Discrete Structures, Linear Algebra, Discrete Mathematics

PROJECTS

TIPPERS Project

- Spearheaded the enhancement of the T-Board platform using PLpgSQL and JavaScript, achieving a 40% increase in data processing speed while integrating Docker for streamlined deployment across IoT environments.
- As the only freshman in the research lab, I contributed to the TIPPERS project by leveraging sensor data management middleware to develop the builder tool for smart-space representations of UCI facilities.

ZotJournal

- Developed ZotJournal, a python-journal app integrating Web API's which allows users to manage journals, access the weather and music data, and communicate via direct messaging by connecting to a local server.
- Designed and executed a modular architecture featuring distinct components for user interface and profile management; created a seamless journal creation process that ensured 100% functional reliability across all aspects of the user interface.

SkillSync

- Built a full-stack platform that analyzes resumes, GitHub, and LinkedIn to generate personalized career paths, curated learning roadmaps, and GPT-powered mock interviews.
- Used NLP (spaCy, Transformers) for resume parsing, trained ML models for role prediction, and integrated LeetCode/GitHub APIs for a real-time skill dashboard.
- Deployed with React, Next.js, Node.js, FastAPI, PostgreSQL, and OpenAI API; incorporated OAuth, Docker, CI/CD, and interactive data visualizations (Recharts).

AI Resume Analyzer

- Led the development and enhancement of an AI-driven platform for resume analysis using FastAPI, Uvicorn, PyPDF2, and OpenAI API, achieving a 30% increase in analysis accuracy.
- Built a dynamic frontend with JavaScript and modern frameworks, delivering an intuitive user experience. Leveraged NLP techniques to provide users with precise, actionable feedback, identifying gaps and optimizing resume quality for better job prospects.

WORK EXPERIENCE

Dreams For Schools   Aug 2024 – December 2024
STEAM Instructor   *Santa Ana, CA*

- Designed and implemented interactive computer science programs for K-12 students, leveraging expertise in Python, C++, HTML/CSS, and Java to cultivate coding skills and inspire interest in technology.

TheCoderSchool   December 2024 - March 2025
Code Coach   *Irvine, CA*

- Delivering personalized coding lessons to students, fostering problem-solving skills, algorithmic thinking, and software development while creating an engaging and supportive learning environment.

SKILLS

- **Languages:** Python, C++, C, Java, C#, .NET, HTML/CSS/JavaScript, JavaScript/jQuery, R, MySQL, SQL Server, PHP

- **Tools:** AWS, Git, Docker, XCode, React, Blazor, Node.js, API's, RStudio, Salesforce, XML, JSON