

Sarah Ramirez

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EDUCATION

University Of California, Riverside

Riverside, CA

B.S. in Computer Science with Business Applications

June 2023

M.S. in Computer Science

December 2024

Relevant Coursework: Natural Language Processing, Design and Analysis of Algorithms, Data Mining Techniques, Artificial Intelligence, Computer Security, Database management Systems, Data Analysis Methods, Machine Learning, Software Construction, Big Data management, Decision Analysis and Management Science, Production and Operations Management, Advertising and Communications, Marketing & Distribution Management, Data Structures and Algorithms

Honors: Dean's Honor List, Chancellor's Honor List

SKILLS

Technical: C++, JavaScript, HTML, CSS, Python, Pandas, NumPy, SkLearn, SQL, Next.js, React, Tailwind, GitHub, CMake, Microsoft Excel, Microsoft PowerPoint, Microsoft Word, Jupyter Notebook, Fiji

Languages: Spanish (Bilingual), Basic American Sign Language

EXPERIENCE

Data Science Pathways Fellowship

Riverside, CA

Fellow

June 2024 – August 2024

- Led a team of 4 fellows in the fellowship: driving project milestones, coordinating daily scrum meetings
- Enhanced the accuracy of predictive models by cleaning and preparing datasets and training a 3D UNet model, contributing to improved research outcomes

UCR Computer Science and Engineering Dept.

Riverside, CA

Teaching Assistant – CS 100: Software Construction

January 2024 – April 2024

- Guide over 50 students through design and implementation strategies, as well as mastery of programming languages, development tools, and technical issues
- Created and presented instructional materials that enhanced student comprehension during lab sessions

UCR Computer Science and Engineering Dept.

Riverside, CA

Grader

April 2022 – Present

- Evaluated and provided detailed feedback on homework, exams, and quizzes for the Discrete Structures course
- Developed comprehensive solution guides that improved student learning outcomes
- Conducted quarterly LaTeX workshops, mentoring 15-20 students per session on effective documentation techniques

UCR Association for Computing Machinery

Riverside, CA

Web Developer

July 2022 – June 2023

- Collaborated in a team to develop an intuitive and user-friendly website for ACM at UCR
- **Utilized:** Tailwind CSS, React Bootstrap, JavaScript, Prettier, ESLint, and GitHub

PROJECTS

Malpractice Compensation Predictor

[GitHub](#)

[Report](#)

- Employed diverse regression methods for precise medical malpractice claim amount prediction.
- Implemented Scikit-Learn for varied regression models to predict malpractice claim amounts accurately
- Customized regression models for comparative analysis, refining predictions in medical malpractice scenario

Portfolio Website

[GitHub](#)

[Site](#)

- Designed and launched a personal portfolio website, showcasing projects and skills
- Implemented Next.js and Tailwind CSS to optimize site performance across devices, ensuring user-friendliness
- **Utilized:** Next.js, Tailwind CSS, React Bootstrap, JavaScript

RAT. A rpg

[GitHub](#)

- Engineered a text-based role-playing game using design patterns in C++
- **Utilized:** C++, GitHub, CMake, and Google text framework

UC System Web Search Engine

[GitHub](#)

- Built a web crawler using Python and BeautifulSoup to crawl and store structured data
- Designed a user-friendly search interface with PyLucene and Flask, allowing users to execute search queries and receive ranked results
- **Utilized:** Python, BeautifulSoup, PyLucene, Flask