

# SARAH RAMIREZ

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## EDUCATION

### University Of California, Riverside

*B.S. in Computer Science with Business Application*

*M.S. in Computer Science*

Riverside, CA

June 2023

December 2024

**Relevant Coursework:** Advanced Computer Architecture, Data Mining Techniques, Artificial Intelligence, Software Construction, Machine Learning, Big Data management, Advanced Operating systems, Data Structures and Algorithms, Discrete Structures, Data Analysis Methods, Decision Analysis and Management Science, Production and Operations Management, Computer Security, Database management Systems, Natural Language Processing, Design and Analysis of Algorithms, Computational methods for Biomolecular Data

**Honors:** Dean's Honor List • Chancellor's Honor List

## PROJECTS

### RAT. A rpg

[GitHub](#)

- A text-based Role-playing game created with two of my friends.
- Utilized design patterns in the creation of our game.
- **Utilized:** C++, GitHub, CMake, and Google text framework

### UC System Web Search Engine

[GitHub](#)

- Developed a web crawler using Python and BeautifulSoup to crawl and store JSON files.
- Created a web-based search user friendly interface using PyLucene and Flask.
- Allows users to input search queries and receive relevant results ordered by score.
- **Utilized:** Python, BeautifulSoup, PyLucene, Flask

### Portfolio Website

[GitHub](#)  
[Site](#)

- Designed and implemented a personal portfolio website
- Utilized media queries and responsive design techniques to optimize the website's layout, content, and images.
- **Utilized:** Next.js, Tailwind CSS, React Bootstrap, JavaScript

### 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.
- Custom-built regression models for comparative analysis, refining predictions in medical malpractice scenarios

## EXPERIENCE

### Data Science Path Fellowship

Riverside, CA

Bioimaging Fellow

June 2024 – August 2024

- Team lead in our DS-Path summer fellowship: Coordinated work, led daily scrum meetings
- Analyzed FIB-SEM cell images, Assisted Researchers with various tasks

### UCR Computer Science and Engineering Dept.

Riverside, CA

Teaching Assistant

January 2024 – April 2024

- Teaching Assistant for the software construction course. Course covers design and implementation strategies and selection and mastery of programming languages, environment tools, and development processes.
- Prepare slides and other materials for students to utilize during lab time
- Assist students with issues and questions they encounter within their lab assignment

### UCR Computer Science and Engineering Dept.

Riverside, CA

Grader

April 2022 – Present

- Grade student's homework, exam, quizzes for the Discrete Structures course at UCR
- Prepare solutions for homework, exams, and quizzes.
- Host quarterly LaTeX workshops

### UCR Association for Computing Machinery

Riverside, CA

Web Developer

July 2022 – June 2023

- Work in a team to develop a new, easy to navigate website for ACM at UCR
- Utilized: Tailwind CSS, React Bootstrap, JavaScript, and GitHub

## SKILLS

C++ • JavaScript • HTML • CSS • Python • Pandas • NumPy • Scikit-Leam • SQL • Next.js • React • Tailwind • GitHub • CMake • Microsoft Excel • Final Cut Pro • Spanish (Bilingual Proficiency) • Basic American Sign Language