

Riya Jain

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EDUCATION

California State University, Fullerton

Expected: Spring 2026

Bachelor of Science – Computer Science

Relevant Coursework: Algorithm Engineering, Front End, Compilers, Databases, Data Structures and Algorithms, Software Engineering

EXPERIENCE

Coding Mind Academy, Irvine, CA

May 2024– Present

Coding Instructor

- Provide one-on-one and group tutoring to students ranging from grades 3rd to 12th, covering a range of computer science courses.
- Teach advanced courses such as artificial intelligence (AI) including topics such as machine learning, k-means clustering, prompt engineering, along with courses in Python and Thunkable.
- Mentor students throughout the course, supporting them in developing projects that align with their interests and course content

K16 Buddy Mentorship Program, Fullerton, CA

October 2024 – Present

Peer Mentor/ Student Assistant

- Provide mentorship to first- and second-year students in the ECS Department at CSUF.
- Support students in foundational computer science courses, such as Object-Oriented Program (OOP) and Data Structures, helping them navigate the transition from high school to college-level coursework.

CIC|PCUBED Summer Research Experience, Fullerton, CA

Summer 2023 & Summer 2024

Student Research Assistant

- **Project: Correlation and Cointegration in the stock market between Mastercard and Visa**
 - Collected stock market data for Mastercard and Visa through Yahoo Finance, focusing on the year of 2022.
 - Analyzed and compared the data, identifying correlation and cointegration between the two companies' stock performance using pairs trading strategies.
 - Presented our research at a showcase during the conclusion of the SRE (Summer Research Experience).
- **Project: Modeling Cardiovascular Health in Women through Diabetic Status**
 - Analyzed a "Heart Failure Predictions" dataset, performing data cleaning to prepare a final dataset, primarily focused on women.
 - Examined the frequency of heart failure occurrences in relation to cholesterol levels, diabetes status and, fasting blood sugar levels among women.
 - Presented research at the Undergraduate Research Experience (URE) Symposium at Cal State Fullerton.

PROJECTS

Space Invaders Gameboy – Theta Tau – Phi Epsilon Chapter (CSUF)

August 2023 – December 2023

- Utilized PyGames to develop a 2D array and display a ship at the bottom of the screen for a game interface,
- Integrated a Raspberry Pi with a 3D-printed Gameboy to display a coded Space Invaders game on the screen.
- Applied AutoCAD and SolidWorks to design and measure the overall dimensions of the Gameboy.

Forte Music Player, Fullerton, CA

Spring 2024 - Present

- Developed a music player integrated with Spotify via the Spotify API, enabling users to sign in to their Spotify accounts
- Primarily utilized HTML, CSS and JavaScript for the development of the user interface and functionality.

CaptionToColor

February 2024

- Created a website using HTML and CSS during FullyHacks, incorporating sentiment analysis.
- Leveraged the Twitter API to analyze user-generated captions or posts, applying sentiment analysis techniques.
- Trained our model using this to categorize captions into three moods: "Happy": Yellow, "Sad": Blue, "Neutral": Pink, assigning each user entry to the appropriate mood category.

SKILLS

- **Languages:** C++, Python, HTML/CSS, SQL, Node.js, JavaScript
- Data Analytics, Data Analysis, AI Systems, Regression models, Machine learning, Clustering, Data Cleaning, Data Modeling, Regression Models, Pairs Trading Strategies, Correlation Analysis, Data Structures, Algorithms, Databases, Process Models
- Visual Studio Code, Jupyter Notebook, Google Colab, PyGames, Thunkable