

Jeffrey Rivera

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EDUCATION

California State University, Fullerton

Computer Science. B.S

Fullerton, CA

Aug 2023 - May 2025

Santiago Canyon College

Liberal Arts: Arts, Comm, Humanities

Orange, CA

Aug 2020 - June 2023

EXPERIENCE

California State University, Fullerton - Association for Computing Machinery

Design Officer

August 2024 - Present

Fullerton, CA

- Organized workshops on design topics, including UI/UX design and Figma basics, fostering creativity through real-time collaboration.
- Led design challenges to promote problem-solving and collaboration among participants.

NASA Community College Aerospace Scholars (NCAS)

Intern

Jan 2023 - Mar 2023

Virtual

- Collaborated in a fictitious role as NASA employees, gaining exposure to project structure and lunar mission design.
- Presented a mock rover proposal to NASA engineers, focusing on space exploration objectives.

California State University, Fullerton - Ankita Mohapatra

Student Research Assistant

June 2022 - Aug 2022

Fullerton, CA

- Utilized advanced microcontrollers and implemented embedded systems connected to sensors to detect potential forest fires
- Administered a machine-to-machine network protocol to collect and transmit sensor data

PROJECTS

Pulsify | Python, React, HTML/CSS, Django, TensorFlow

Aug 2024 - Present

- Developed a sound source separation tool that uses machine learning to isolate sound sources from songs.
- Creating a unique audio experience by allowing users to manipulate individual sound sources.
- Used Django and TensorFlow for backend machine learning models and React for the frontend.

Statify | SpotifyAPI, Python, HTML/CSS, Flask

Aug 2023 - Dec 2023

- Built a Spotify Wrapped-inspired application with year-round accessibility for users.
- Displays top artists and songs using data visualizations and allows users to generate personalized playlists.
- Utilized SpotifyAPI to retrieve user data and Flask for the backend.

Forest Fire Prevention Prototype | C, ESP32, Python

June 2022 - Aug 2022

- Utilized advanced microcontrollers and implemented embedded systems connected to sensors to detect potential forest fires.
- Used code from public libraries to systemize radios to send and receive packets of data used to prevent potential forest fires.
- Utilized SpotifyAPI to retrieve user data and Flask for the backend.

TECHNICAL SKILLS

Languages: C/C++, Python, HTML/CSS, JavaScript

Frameworks: React, Django, Flask

Developer Tools: Git, Github, VS Code, PyCharm, IntelliJ, Figma