

Edgar Rodriguez

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Work Experience

Technical Trainer

Frost Equity Initiative

June 2023 to Present

- Diagnosed and resolved technical issues related to the software, hardware, and network used in the classroom.
- Introduced students to programming by focusing on key topics such as abstraction, data structures, and reusability.
- Languages: Javascript, Python

Projects

Campus Talk

January 2023 to December 2023

- Designed and implemented a campus discussion forum utilizing React for front-end development and NodeJS for back-end integration.
- Gathered requirements from stakeholders, designed user interfaces, and managed database components.
- Provided regular updates via Jira and Github to the team members, ensuring project milestones were met.

Animal Identification AI

May 2024 to May 2024

- Designed and trained a convoluted neural network (CNN) to classify images of animals into 10 categories.
- Utilized Python and TensorFlow for model development and training, and evaluated the model's performance based on accuracy and loss metrics.

Penetration Testing IoT

March 2023 to April 2023

- Designed and executed multiple penetration attempts using different tools and protocols to gain unauthorized control of a smart IoT device.
- Utilized Wireshark to sniff network packets and analyze payloads, uncovering security flaws in the device's communication protocols.

Education

B.S. in Computer Science

California State University - Long Beach, CA

August 2019 - May 2024

Honors: Cum Laude

Skills

- Python
- Javascript
- HTML / CSS
- C++