Rafael A. Espinoza

respin5757.github.io/personal-website/

(915) 222-9927 • espinorb@bc.edu

EDUCATION

Boston College *May 2024*
- *Bachelor of Science in Computer Science, Minor in Mathematics*
- Relevant Courses: Algorithms, Intro to Data Science, Computer Vision, Linear Algebra, Robotics

EXPERIENCE

Advanced Paperworks Inc *El Paso, TX*
Design Engineer Intern *June 2021 – August 2021*
- Collaborated with engineers to update and improve production designs using AutoCAD. This included studying several processes that our Mark Andy machines would perform and modifying instructions to be straightforward and efficient for the machine operators.
- Utilized Microsoft Access to manage linked forms concerning inventory, quality control, and part management between the network of computers.
- Constructed a website using WordPress and light CSS and HTML code.

Boston College Law School *Boston, MA*
Audio Visual Technician *August 2022 – Present*
- Proficient in the setup and dismantling of audio and visual equipment for law school events.
- Troubleshooted computer, projector, and speaker systems to resolve technical issues.
- Effectively communicated and delegated hardware and maintenance requests to the appropriate departments.

PROJECTS

Spootify
- Utilized Spotify Web API, OAuth2 authentication, and NumPy to analyze user's recently played tracks and gather audio feature data.
- Retrieval of audio feature data included valence, danceability, energy, and liveness.
- Analyzed data to determine overall mood and generated visualizations using Matlab to further understand the data.

Fashionista
- Successfully trained a Mask R-CNN model for object detection and classification in fashion images using the iMaterialist Fashion 2019 dataset.
- Worked as part of a team of 3 to implement KFold cross-validation technique, apply data augmentation techniques, and train the model on the train set.
- Led the evaluation of the model's performance on the validation set, saved the best weights, and plotted the accuracy and loss over the training epochs.

ACTIVITIES

Computer Science Society *(Boston, MA)* *Fall 2021 – Present*
Marketing Team Member and Sponsorship Coordinator
- Developed and implemented social media advertising strategy for school events, resulting in increased attendance from the student body.
- Networked with BC alumni and utilized resources from the BC Career Center to secure sponsorships for club event.

Coronado Robotics Club *(El Paso, TX)* *Fall 2018 – Spring 2020*
- Designed, constructed, and programmed robots in C++ with diverse capabilities for annual competitions, including a robot with a robotic claw capable of collecting moving objects from a body of water.

SKILLS & INTERESTS

Coding Languages - Java, Python Verilog, HTML, CSS, SQL and C
Technologies – Matlab, PyTorch, Numpy, Pandas, Jston
LinkedIn Certifications – SQL Essential Training, Python Structures and Algorithms
Languages - Native Spanish Speaker
Interests - Fishing, Hiking, Camping, Basketball, Weightlifting, True Crime, A24 Studios, Art, and Computer Vision