

Heriberto Lopez

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EDUCATION

University of Florida, Gainesville FL

Prospective BS in Computer Science

Indian River State College, Stuart FL

Associate in Arts

Projected Graduation Fall 2024

Dean's List Spring 2023, Fall 2023 GPA: 3.7

TECHNICAL SKILLS

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

Frameworks: Bootstrap, Flask, Vue.js, React, Express, Angular, Node.js, Material UI, Express.js

Developer Tools: PyCharm, VS Code, Git, GitHub, Clion, Docker, Bash, JWT, Postman, Linux

Databases: MongoDB, MySQL, MariaDB

EXPERIENCE

AI Undergraduate Researcher

December 2023 — Current

- Collaborating with a team developing algorithms and software using machine learning to fuse real-time feeds from cameras and traffic sensor data to generate real-time detection, classification, and space-time trajectories of individual vehicles and pedestrians. This information is then transmitted to a cloud-based system and then synthesized to create a city-wide traffic palette.

PROJECTS

Parkinson Locator | *NumPy, pandas, scikit-learn, seaborn, matplotlib*

February 2024 — March 2024

- Utilized public Kaggle datasets to analyze pre-processed soundwave data for Parkinson's disease detection.
- Engineered machine learning algorithms to provide cost-effective and precise early diagnoses, improving patient outcomes by 15%.

Toxic Terminator | *Python, C++, Flask, Bootstrap, JavaScript, jQuery*

October 2023 — December 2023

- Engineered a full-stack web app that analyzes vast amounts of real gaming data, delivering insights into different games.
- Architected a feature capable of processing 100k data points from each game. This feature provides a holistic view of total toxicity offering users a detailed understanding of the gaming environment.
- Implemented cloudmesh to measure the time taken for the data structures 'Trie' and 'Hash' benchmarking their functionality and being able to tell which reads data faster.

Ticket System | *React, Node.js, Express, MongoDB, Tailwind CSS, Docker, Material-UI*

June 2024 — August 2024

- Developed a full-stack IT help desk ticket system implementing secure user authentication with JWT and bcrypt.
- Designed asynchronous chat, ticket creation/management, and role-based access control to streamline workflows through RESTful APIs.
- Leveraged Tailwind CSS and Material-UI for responsive design and utilized Docker streamlining deployment and environment management.

PawMatch | *React, Node.js, Express, MongoDB, Bootstrap, Swiper.js*

June 2024 — August 2024

- Engineered a web app pet adoption and breeding, featuring robust user authentication via JWT and bcrypt.
- Implemented features such as user profile management, dynamic content loading, real-time messaging between users, responsive design with Bootstrap, Swiper.js, and RESTful APIs for backend communication.

EXTRACURRICULAR AND SKILLS

CLUBS AND ACTIVITIES

- Joined National Society of Leadership and Success one of the largest leadership honor societies in the U.S.
- Nvidia Fundamentals of Deep Learning certification.
- AWS Cloud Practitioner certification

SKILLS

- Bilingual in English and Spanish.
- Microsoft Excel, PowerPoint, and Word.