Heriberto Lopez

772.203.2617 | Lopezbeto305@gmail.com | github.com/Beto91401 | linkedin.com/in/-heriberto-lopez

EDUCATION

University of Florida, Gainesville FL | Projected Graduation Fall 2024

Prospective BS in Computer Science | **Dean's List** Spring 2023, Fall 2023 **GPA: 3.7**

Indian River State College, Stuart FL

Associate in Arts

TECHNICAL SKILLS

Languages: Python, C++, HTML/CSS, JavaScript, SQL, Java
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 Researcher at the UF MALTLab — December 2023 ― July 2024

- 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 help us analyze pre-processed soundwave data for the detection of Parkinson's disease.
- 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.
- Utilized 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.