

JAMES HERNANDEZ

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CERTIFICATIONS

- **App Academy:** Graduated from App Academy's Full Stack Web Development program (Feb - Aug 2023), encompassing over 1,000 hours of intensive training and collaborative project work, under the mentorship of experienced software engineers. The program included extensive peer programming, fostering a deep understanding of both front-end and back-end technologies.
- **JavaScript Algorithms and Data Structures:** Completed FreeCodeCamp's JavaScript Algorithms and Data Structures Course, spending hundreds of hours understanding core principles of OOP.

EXPERIENCE

- **Backend Lead** Nov 2023 - Present
Blue and Yellow Foundation, Non-profit
 - **Authorization:** Ensured client's privacy and autonomy utilizing NextAuth and Firebase authentication measures, allowing only admins to access the database.
 - **Server-side rendering:** Utilized NextJS's Server components to fetch data from the database in the server, removing any delay between the loading of a page and the loading of the data needed. Allowing for better search engine optimization and leading to a 25% increase in website traffic.
 - **Limiting API calls:** Created API routes to fetch data from Facebook's graph API then saved that data to the database, reducing the calls to Facebook's graph API from possibly thousands to a few per day.
- **Brand Ambassador** Jul 2021 - Feb 2023
Kinetic Events and Colibri Events
 - **Promotional Assistant at Current:** Distributed promotional cards in New York City, provided information and assistance to individuals interested in the Current app.
 - **Station Coordinator at Veo:** Educated users on rental processes and payment procedures for scooters, ensuring a positive customer experience.
 - **Course Marshal and Volunteer Coordinator at NYC Runners:** Led a team of volunteers for marathons, managed volunteer sign-ins and communicated responsibilities, ensuring runner safety.

PROJECTS

- **KnowVerse (live) (repo)**
A sophisticated full-stack application built with React/Redux and Flask
 - **User safety:** Ensured user privacy and autonomy through React Router, and frontend and backend authentication measures, allowing users to only access and make changes to their own sets when logged in.
 - **Smooth single-page experience:** Utilized React state to ensure a smooth single-page experience allowing users to effortlessly add or delete cards.
 - **Data integrity:** Validated form data using WTForms library to maintain the integrity and quality of data stored in the PostgreSQL database.
 - **Chat assistant:** Implemented AI chat assistant using OpenAI's API giving users the ability to be quizzed and taught on the set of their choosing.
- **Goaly (live) (repo)**
An innovative web application that combines React/Redux and Flask with AWS and PostgreSQL
 - **AWS S3:** Incorporated AWS S3 to implement user image uploads, reducing server load and allowing for scalability of image services.
 - **Version control mastery:** Utilized Git branches optimally while collaborating with fellow developers to create the web application, ensuring a seamless development process.
 - **State management:** Incorporated React/Redux container and Redux selector patterns to architect highly scalable and uni-directional front-end state management.

PROGRAMMING SKILLS

- HTML, CSS, JavaScript, Python, React, Redux, Next.js, Flask, Express, SQLAlchemy, Sequelize, Git, Node.js, PostgreSQL, MongoDB, Firebase, AWS