

# Joaquín Emanuel Lizarraga

I am a motivated technologist, mobile and web backend developer, specialized in AI integrations; with ability to work autonomously and in team environments. I solve problems with ingenuity and am always willing to help.

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## PROJECTS

### Outsource Argentina — AI integration

August 2024 - Actually

- Develop a property search function for Rentscape App with AI chat, function calling and structured outputs.
- The search is performed by embeddings in a vector database to handle the highest possible accuracy.
- I used the “o3-mini-2025-01-31” reasoning model to generate the data while the chat is happening.

### Outsource Argentina — Mobile application developer

August 2024 - Actually

- Develop an app with React Native and Expo from scratch, using backend for frontend with Supabase.
- The app has the function of generating training plans and nutritional plans with the data provided by the user during onboarding.
- I used the “gpt-4o-2024-08-06” model to generate the data also using the structured data output to avoid data loss in the response.
- I used Supabase edge functions to automatically schedule and execute functions, freeing the code load to the device.
- The user can generate recommendations and changes to both training plans and nutritional plan recipes, respecting the preferences of both, using Pinecone (vector database) where the embeddings of the records are saved.

### SugarSync Project (Mobile application) — In progress

November 2023 - Seeking funds to continue

- SugarSync is focused on creating an ecosystem for diabetes control and management.
- For carbohydrate counting it uses the USDA API. Using voice recognition AI saves the user’s time searching ingredient by ingredient.
- Integration with the APIs of the companies that provide blood glucose sensors and insulin pumps(Freestyle, Dexcom and Medtronic) to keep track of the controls.
- At the same time, the user’s doctor would have the possibility of accessing the patient’s information from his or her account in the same

## TECHNICAL SKILLS

Javascript, typescript, HTML, CSS

React native, react, redux, zustand, nestjs, nodejs, jest, mocka, tailwind, native wind, express, sequelize

PostgresSQL, supabase, edge functions, triggers, firebase

IA generative models integration, embeddings generation

## EDUCATION

### Henry Bootcamp

Theoretical-Practical course of +800 hours where I learned about building client-server web applications integrating database models, collaborating with teammates using agile scrum methodologies.

### Universidad Nacional de Córdoba

Biomedical engineering career, currently in progress

app, being able to leave a clinical history

## HA - Henry Assistant at Henry

February 2024 - August 2024

- The responsibilities are: Pre-select new Teach Assistants. Train them in soft skills. Conduct role-plays, where the pre-selected candidates participate in a simulated situation. Finally choose the finalists, who will be in charge of the incoming students to Henry's bootcamp.

## LANGUAGES

Native spanish

Intermediate/Advanced English

Intermediate Italian

## Nasa App Project (Mobile application)

November 2023

- I developed an app with React Native using the NASA API (Astronomy Picture of the Day).
- In the application was integrated sample images, list, and details of the elements.

## Pomodoro App Project (Mobile application)

October 2023

- Project developed with last CLI React Native version.
- The idea was to develop a timer under the "Pomodoro" system to increase productivity and concentration.

## Blog integration (web application) —Software Engineer

August 2023 - September 2023

- Dynamic blog delivered for incorporation to the company website.
- Collaboration between students applying the "scrum" methodology.
- User Interface built on Next.js 13, with Zustand implementation for global state management.
- Server built on AWS Lambda, configuring AWS Api Gateway as event trigger.
- Image storage system on AWS s3 Buckets.

## Academic Experience - FoodApp (web application)

August 2023

- Individual project done in a period of 2 weeks where the knowledge acquired in the Henry's Bootcamp was demonstrated.
- Implemented React as a library for the development of User Interface.
- Debido a la poca confiabilidad de la API proporcionada, creé una API propia con la misma información para que funcione con un respaldo en caso de fallar la primera.
- Application state managed with Redux.
- Server built in Node.js using Express framework.
- PostgreSQL used as database.
- Sequelize ORM implementation for queries, management and creation of database models.

## **Academic Experience – Rick & Morty (web application)**

July 2023

- Integration project done in the first two months of the Henry's Bootcamp.
- Implemented React as a library for the development of User Interface.
- Application state managed with Redux.
- Server built in Node.js using Express framework.
- PostgreSQL used as database.
- Sequelize ORM implementation for queries, management and creation of database models.

## **VOLUNTEERING**

### **Academic Experience – Henry Bootcamp Teaching Assistant Program**

July 2023 - September 2023

- Coordinated a group of students with the objective of integrating them with each other.
- Implemented dynamics to stimulate the relationship between students.
- Aided assistance in solving exercises.
- Group activities and pair programming were promoted and encouraged.
- Feedback and ideas proposed for the improvement of the Bootcamp processes.