Jorge R. Barreto

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[JB]

Lifelong lover of knowledge and experienced live events producer sharply pivoting into software engineering.

Skills

Ruby • Rails • ActionCable • JavaScript • React.js • Redux.js • Node.js • WebSocket • NGINX • Redis
Docker • AWS S2 • Git • Apollo • postgreSQL • MongoDB • GraphQL • Linux • Google Cloud Platform

Projects

Code Dueler (React, Express.js on Node, Apollo GraphQL, MongoDB, WebSocket)   Live | Github
Multiplayer game where the participants must race each other in attempting to complete a coding challenge. Players can see their opponent's stats (line count, passed tests), and spectators can see what each player is typing in real time.
- Used GraphQL subscriptions over a WebSocket transport layer in order to achieve low latency real-time functionality
- Implemented a Google Cloud Function which computes the user's code input and returns its output, or any errors raised, along with the stack trace

ActiveRecord Lite (Ruby, SQLite)   Github
Ruby module which clones most of the basic functionality offered by ActiveRecord, Rail's native ORM.
- Used metaprogramming techniques in order to dynamically generate classes and specific query methods based on SQL table information, including higher order association methods
- Implemented a SQL Abstract Syntax Tree manager (SastMan) in order to parse and internally represent SQL SELECT queries, allowing the arbitrary chaining of query methods

YASC - Yet Another Slack Clone (Rails 6, React, Redux, Webpack, postgreSQL, Redis, WebSocket)   Live | Github
Fullstack SPA which mimics the basic functionalities of Slack, the messaging application.
- Leveraged ActionCable in order to implement real-time messaging across multiple user sessions
- Implemented a many-to-many polymorphic relationship in ActiveRecord which allowed for highly simplified queries to be made to the database
- Self-hosted behind a Dockerized NGINX reverse proxy secured by LetsEncrypt TLS certificates

Experience

Chief Technical Officer   **04.2018 - 06.2019**
Cryptocurrency Consultancy Group, LLC – *Piqua, OH*
- Co-founder of a cryptocurrency consultancy startup. Responsible for overseeing the design and production of the company's flagship offering: a self-contained 12-GPU processing unit used in the procurement of Ethereum
- Orchestrated a distributed cluster of dozens of such units. Maintained over 95% uptime
- Designed, constructed, and maintained a heat throughput system which lowered operating temperatures by 11°C

Development Coordinator, Technical Director   **03.2016 - 04.2018**
Project Monkey, Inc – *Miami, FL*
- Co-founder of a non-profit, entertainment-based startup. Ultimately responsible for all technical matters in the organization, especially orchestrating the day-to-day logistical needs of several shows at a time
- Led teams of 5-15 in order to safely erect theatrical scenery and production equipment, often in highly public spaces
- Assisted procuring and subsequently managing over $150,000 in equipment-based donations on behalf of the organization

Education

2019 - 2020 **Full Stack Web Development**
        App Academy - *Remote*
2011 - 2015 **Bachelors of the Arts -** Philosophy
        New College of Florida - *Sarasota, FL.*