Guillermo Aviles
Software Engineer

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Summary

Software Engineer passionate for user-centric solutions that lower the complexity barrier for users. A natural leader, analytical, extremely motivated, and curious hard worker with impeccable attention to detail and desire to build innovative products. Advocate of collaboration especially in the context of solving complex technical problems.

Skills

JavaScript • React • Next.js • Node.js • Express • Mongoose • Python • SQL • Git • Github

Projects

Cacao | Built Using: Typescript, Next.js, TailwindCSS, thirdweb, ethers
- Created a marketplace protocol for lending and borrowing non-fungible digital asset utility.
- Borrowers or "renters'' are able to rent a digital asset's utility without actually taking possession of it, nor putting up collateral equal to the worth of the asset. This enables owners to earn yield on their digital assets in a safe manner.
- The project won first prize for the Thirdweb Hacker House.

Crosschain Bridge Stats App | Built Using: HTML, CSS, JavaScript, React, Axelarscan API
- Created a web application to allow users to query crosschain bridge transfer data across various bridge routes.
- Users select the source chain, destination chain, asset and time range through a simple and easy to use UI and get a breakdown of the results through visual graphs and formatted data.

Online Store | Built Using: HTML, CSS, JavaScript, React, Node, Mongoose, mongoDB
- Created a full stack web application for an ecommerce store.
- Applied functionalities such as ability to buy, list items for sale and add product reviews using API calls that interact with the backend.
- Achieved full CRUD functionality with deployed front and back ends.
- Utilized custom API built using Node, Express and Mongoose.

Algorithmic Trading | Used: Freqtrade open source code, Python, Ubuntu
- Created custom algorithmic trading strategies from scratch, as well as using Freqtrade open source code.
- Performed parameter optimization and backtesting applying ML regressor algorithms.
- Carried out profitable automated trading strategies based on RSI, Bollinger Bands and on-chain metrics across various exchanges, including Coinbase, Binance and KuCoin.

Experience

General Assembly | Software Engineering Apprentice | Remote   October 2022 - Jan 2023
- Designed and built fully responsive front end web applications using HTML, CSS, Javascript, React, and third party API integrations.
- Developed full-stack applications and designed REST APIs with full CRUD functionality using React, Javascript, Node.js, Express, Python and PostgreSQL.
- Applied knowledge of programming best practices and computer science concepts, including algorithms, data structures, databases and MVC pattern design to develop high quality and maintainable code.

Messari | Researcher & Protocol Services Associate | Remote   October 2021 - June 2022
- Conducted research on fundamentals, economics and value accrual mechanisms for assets.
- Worked closely with protocol founders and team members to define, monitor and maintain control of scope of work and schedules to ensure orderly and complete preparation, distribution and maintenance of all asset profiles.
- Wrote Messari's Weekly Recap providing relevant information of various market sectors from data sourced through the use of Python scripts.

Education

General Assembly | Software Engineering | Remote   January 2023

Polytechnic University of PR | BE, Mechanical Engineering; conc. in Aerospace | SJ, PR   May 2020