

Santiago Aguirre

Senior Fullstack Engineer

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Work history

Swoops / Senior Web3 Frontend Engineer

AUGUST 2022 - PRESENT

Projects built:

Swoops: Web3 NFT based simulation/strategy game for Basketball fanatics.

- Developed and maintained the frontend architecture of a **Web3** strategy basketball game that utilizes real ownership and **NFTs**, creating a seamless **user experience** for players.
- Worked closely with **product owners** and **designers** to prioritize and implement user-centric features that increase **engagement** and **retention**.
- Led the **integration** of various **Web3** technologies, including **MetaMask** and **Web3.js**, to enable seamless blockchain transactions and **NFT** ownership verification.
- **Designed** and **implemented** a responsive and intuitive user interface, leveraging **React**, **NextJS**, and **Tailwindcss**, to enhance the overall **user experience** and drive **user engagement**.
- Conducted extensive testing and optimization to ensure the game's performance and scalability, leveraging tools like **Google Lighthouse**, **Jest**, and **Cypress**.
- Collaborated with **cross-functional teams**, including **backend developers** and **blockchain engineers**, to ensure seamless integration of **frontend** and **backend** functionality.
- Actively **monitored** and **analyzed** user **feedback**, usage **patterns** and **metrics** with the help of **Sentry** and **Hotjar**, to inform ongoing product development and iterate on the frontend experience

Light-it / Senior Fullstack Engineer

MARCH 2022 - JULY 2022

Projects built:

TrackPharma: Decentralized app for the tracing of the drug production and delivery chain.

- Managed a **5 person team**, from the **Tech Lead** position. Was instrumental in **core architectural** and **design decisions** from the start of the project.
 - Developed from scratch using **ReactJS**, **NextJS**, **Ethers.js** (w/ **Typescript**) and **Solidity**.
 - Implemented **smart contracts** using the **HardHat** framework
 - Integrated **ERC-721** standard contracts for the tracking of Drugs in the production chain.
 - System was designed for **Ethereum** based networks, although **Permissioned hyperledgers** were thoroughly investigated for the purpose of this project.
 - Worked with **websockets**, **Solidity Events** and stored in-chain images (as opposed to storing images in **IPFS**)
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Switch Software Solutions / Fullstack Engineer

FEBRUARY 2018 - MARCH 2022

Projects built:

Phoenix Project: Platform for internal management of underwriting, accounting and insurance claims for multibillion dollar company Odyssey Reinsurance.

- Joined an advanced project built with **Angular 2+**, **.NET Core** and **NodeJS**.
- Re-implemented/migrated entire project to **micro frontends** using **ReactJS** w/ **Typescript** and **Lerna**.
- Improved **performance** adding several **caches** using **Redis**.
- Improved platform **availability** adding several **message queues** and a **load balancer** for intra-system communication.

CEPI CAU: Platform for management of 50+ educational centers for the Uruguayan Government.

- Built from scratch with **ReactJS** and **NodeJS** w/ **Typescript**.
- Conformed to heavy **security regulations** pertaining user and governmental information.
- Built **data processing pipeline**, implementing **Pipes & Filters** pattern.
- Displayed data in several types of **charts**, using **ChartJS**.
- Streamlined **postprocessing** and **reporting of data** and **performance metrics** using several **queues** (**BullMQ**).

TataPlus: Platform for discounts, coupons and promotions for the same Supermarket chain group.

- Developed from scratch using **React Native** and **NodeJS** w/ **Typescript**.
- Utilized and improved upon previous **design system** built on the previously listed project.
- Managed **location services** with custom **map**.
- Mapped **barcode** and **QR code** scans to stock products.
- Integrated with several identity providers, using **Federated identity** architectural pattern.

TataProvisions: Platform for centralizing provider management for a known multinational Supermarket chain group.

- Developed from scratch using **ReactJS** and **NodeJS** w/ **Typescript**.
- Integrated with **location APIs**.
- Co-authored **design system** with **UX/UI** designer for supermarket chain group applications.
- Managed **real time IoT** input data pertaining to the handling of stock.
- Used several **message queues** to handle input, process it and **email** head managers reporting information.

Education

ORT University / Bachelor's degree in Computer Science

FEBRUARY 2018 - DECEMBER 2023

University of Engineering UdelaR / Electrical Engineering

MARCH 2016 - DECEMBER 2017