

David Lomas Gonzalez

Jocotepec, Jalisco, Mexico

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Summary

As a Senior Full Stack Developer, I'm keenly interested in algorithm-level efficiency and has experience working both with front-end and back-end technologies.

React, Angular, Web3 and Node.js, PHP, Python, .Net enthusiast. Spending most of time in the tech community.

Education

Instituto Tecnológico de Tlajomulco Jalisco, 2011 - 2015

Gained Bachelor's degree of Computer Science

Experience

Full Stack Web3 Developer, TOKENTRAXX

Oct, 2021 - Dec, 2024

The main stage for music in Web3. Connecting artists and fans to mint the sound of a decentralized future

- Created the shared component library using **React**, **TailwindCss**, **Storybook**, **Webpack** and published it into **Gitlab** npm package registry.
- Wrote a doc for using and updating the shared component library in **Confluence**.
- Created a user interface using **Figma** design with user-friendly multi-step form using Typescript, **React**, **Redux** and **Next.js**.
- Designed and built infrastructure for **Web3** wallets integration includes the ability to directly connect to external wallet providers, enabling seamless onboarding of crypto native alongside the social login.
- Designed and implemented a new, high-security architecture to protect the wallet against attacks via open source dependencies.
- Created some API endpoints to integrate music NFT mint, list, buy, sell and auction functions using **Node.js** in backend.
- Also created backend APIs to upload the NFT to AWS S3 bucket and **Arweave**.
- Integrated with **TRAXX Studios**, an interconnected network of fully customizable NFT marketplaces.
- Implemented Live video conferencing & collaboration functions using **WebRTC**.
- Created an admin panel to manage user accounts and their actions using **Angular**, **RxJS** and **Nest.js**.
- Improved the app performance for efficient data handling and manipulation using **GraphQL**.
- Implemented interaction with Ethereum **Smart contracts** using **Typescript**, **Web3**, **Solidity**, **Polymesh**.
- Implemented **Microservices** architecture using **Docker** and **Kubernetes**, improving deployment flexibility, and enabling efficient scaling of services.
- Implemented **end-to-end testing** using **Cypress**, ensuring the platform was stable, reliable, and functional across various use cases.

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- Utilized **AWS** services such as **S3** for decentralized storage and **EC2** for cloud-based processing, enabling robust scalability and high availability.
- Worked on **Agile SDLC**, **Scrum Methodology** to practice-based methodology for modeling and documentation of software based systems.

Software Developer, ARENA

May 2018 – Sep 2021

Arena is a software startup developing the next generation of engagement tools powered by first party data

- Improved efficiency of existing solutions and fixing bugs for stable in end-user experience.
- Created components library for shared components, editable tables, and utilities using **React**, **Typescript**, **Tailwind CSS**, **Storybook** and **Webpack**.
- Created visually appealing and user-friendly interfaces by building responsive pages on frontend frameworks such as **React** and **Angular**, and utilizing **Tailwind CSS**, **JS/TypeScript**, and other tools.
- Consulted regularly with customers for building user-friendly web application and contributed on revenue growth.
- Built a **RESTful** web service using **PHP**, **Laravel**, **MySQL**, and **Redis**, optimizing them for dynamic usage across mobile and web applications.
- Scraped data using **Python/Django** and created a new individual frontend to display live blogs.
- Designed and implemented real-time features such as **live chat** and **live blogs** using **WebRTC**, **Socket.IO**, and **Python/Django**, improving user engagement on the platform.
- Developed and designed a responsive and efficient search system using **Elasticsearch**.
- Deployed services using **AWS**, including **EC2**, **S3**, and **RDS** to ensure high availability and easy scaling for customer-facing applications.
- Implemented a read-write split and a master-slave sync system, utilizing **AWS** for web service deployment and website hosting, with **Apache Kafka** as a messaging system.
- Integrated **Terraform** to manage infrastructure-as-code, automating cloud resource provisioning and reducing manual intervention.
- Wrote **Shell scripts** for deployment automation and streamlining various administrative tasks.
- Performed code review and **PHPUnit** tests and estimated tasks and applied clean code practices.
- Designed technical tasks for interviews and assisted in onboarding new team members.

Full Stack Developer, Myclubs

Feb, 2016 - Apr, 2018

The largest corporate fitness provider in Austria and Switzerland.

- Designed and implemented a **microservices-based architecture** using **Azure Functions**, **Azure SQL**, and **CosmosDB**, ensuring scalability and high availability for the corporate fitness platform.
- Implemented a modern, responsive frontend solution using **React**, focusing on performance and maintainability, and created and integrated the **ASP.NET Core** backend API with frontend, ensuring it was scalable, secure, and well-documented.

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- Created **custom C# components** to handle complex business logic and integrated external systems for real-time fitness data tracking.
- Integrated the system with **Azure Notification Hubs** and **Azure Event Hub** to handle automated marketing flyers, fitness challenges, and wellness notifications, ensuring scalability and reliability.
- Designed a custom reporting dashboard using **Power BI**, providing rich, interactive reporting capabilities for the corporate clients to analyze employee participation, program effectiveness, and ROI.
- Implemented **secure user authentication** and **authorization** with **ASP.NET Core Identity** and integrated with **Azure Active Directory** for seamless **SSO (Single Sign-On)** functionality.
- Ensured unit test coverage and robustness by implementing **Test-Driven Development (TDD)** with **NUnit**, automating unit testing processes for backend services.
- Contributed to **Agile workflows** by participating in sprint planning, retrospectives, and regular standups, promoting a collaborative development environment.
- Implemented various **Shell scripts** for automating deployment and server management processes.
- Worked with **SQL** and **Azure CosmosDB** to ensure reliable data storage, and leveraged **MongoDB** for handling unstructured data.

Skills

- Javascript / Typescript, Groovy, Shell Scripting
- React | Redux | Next
- Angular | RxJS | NgRX
- Node.js | Express.js | Nest.js | Fastify
- PHP | Laravel, Symfony
- Python | Django, C++, C#, Go
- .NET, .NET Core, ASP.NET, ASP.NET Core, ADO.NET, WCF, WPF, Web Forms, Win Forms, Entity Framework, Blazor, BizTalk
- Rust, Solidity | Web3 | Ether
- OpenZeppelin, Truffle
- BTC | ETH | BSC | Polygon
- IPFS
- Avalanche | Solana
- SQL, MySQL, PostgreSQL
- MongoDB, Redis
- GraphQL
- Swagger
- Apache Cassandra, Kafka, Elasticsearch
- Jest, Mocha, PHPUnit, NUnit
- Karma, Jasmine, Cypress
- Material-UI, Anti-UI, Chakra-ui, PrimeNG
- Storybook
- RESTful API, Google APIs
- WebRTC
- gRPC
- NPM
- AWS (DynamoDB, S3 bucket, Lambda, SQS, EC2), Azure
- Nginx
- Docker, Kubernetes, Jenkins, Maven, Terraform,
- Git, GitLab
- Jira, Notion, Trello
- Subversion (SVN)
- Scrum