

MAURICIO MERCADO

SOFTWARE DEVELOPMENT LEAD

Software Architect and Senior Software engineer with more than 10 years of experience working with multi cultural teams, remotely and on site, focused on code quality, maintainability and scalability.

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Skills & Competences

Systems Design, Typescript, Javascript (Backend and Frontend), Rust, Python, NoSQL (e.g. Redis, MongoDB, ElasticSearch), RDBMS, GraphQL, gRPC, tRPC, RESTfull APIs, Message Queues, WebSockets, Containers, Micro-services and Modular Monoliths, AWS, Cloudflare, Pulumi, Github Actions, Automated Testing, Vitest, Jest, Playwright, Cypress, Agile Methodologies, Mentorship.

Work Experience

Senior Software Engineer

Coursedog — 03/2023

- Designed and maintained real-time, bi-directional integrations with educational systems like Oracle's peoplesoft, Ellucian Banner, Ellucian Ethos, Jenzabar, etc.
- Enabled educational institutions to streamline class, event, curriculum, and catalog planning by facilitating seamless integration of disparate systems.
- Contributed to risk minimization by creating stable integrations that are resilient to updates or changes in the PeopleSoft system.

Architect, Designer And Lead Developer

Codigo — 01/2008 - 03/2023

- Specialized in creating custom software solutions that were efficient, scalable, and user-friendly, tailoring them to meet specific client needs. This involved full-stack development, where I worked on both the front-end and back-end, utilizing a variety of technologies such as Python, OpenAI, N8N flows, Node.js, TypeScript, AWS services like EC2 and SageMaker, WebSocket, React.js, Svelte, CSS, Redis, Kafka, Elasticsearch, LLM, Restful APIs, GraphQL, CI/CD (GitHub Actions), React Native, SQL, Docker, Pulumi, Firebase, and Supabase.

Senior Software Engineer

Doc.Ai / Sharecare — 03/2022 - 03/2023

- Created and maintained SmartOmix (<https://smartomix.com>). A decentralized research platform for researchers, built with ReactJS
- Created and maintained npm modules for the components used throughout the SmartOmix application and API client communication.
- Created and maintained npm packages for consistent development experience across SmartOmix and its dependencies.

Senior Engineer

Galvanize — 10/2021 - 03/2022

- Led a team in adopting Fastify (NodeJS) and AWS Lambdas.
- Mentoring developers to adopt Javascript best practices and embracing functional programming.
- Usage of strangler patterns to help move towards modernizing the existing monolithic codebase.

Consultant Senior Engineer

Mobilelive — 04/2021 - 10/2021

- Created an abstraction layer with Javascript to create micro frontend experiences and micro container based applications <https://github.com/mobilelive-inc/bolsterjs>.
- Lead a client to the adoption of micro frontends using the abstraction layer built.

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Senior Lead Engineer

Cto.Ai — 08/2020 - 04/2021

- Guided developers to adopt an open source collaboration model.
- Built a GitHub application with NodeJS and Fastify to integrate developer data from GitHub organizations for analysis in CTO's dashboard.
- Implemented automated quality control across projects to standardize practices using GitHub Actions.
- Migrated monolithic features to extensible micro-services using the serverless framework with AWS.

Senior Technology Architect

Telus — 03/2019 - 07/2020

- Provide best practices and guidance to the community of developers at Telus.
- Led a team of engineers through planning, design and execution of a new NodeJS based framework, leveraging Fastify's plugin based architecture, that would facilitate secret injection through Hashicorp's Vault, tracing using Zipkin, logging and reusability, CI/CD with GKE and CloudBuild, while maintaining the current system.
- Infrastructure automation was managed using Terraform and GCP API's.
- Provided technical assistance as part of the internal technical forum initiative, and made several presentation to developers with both technical and functional demo purposes.
- Used Kubernetes with GKE for automated deployment.
- Leveraged GitHub's API as part of the platform framework to automatically create a remote repository, with github actions and standard labels for issues and documentation.

Senior Lead Engineer

Navarik — 01/2019 - 03/2019

- Provided training, code standards and best practices with NodeJS and React for the entire team of developers.

Senior Engineer

Humanapi — 07/2015 - 06/2018

- Designed and deployed micro-service architecture-based services to retrieve, synchronize and visualize user data from various platforms, applications, devices and other health data providers.
- Integrated metrics instrumentations throughout the stack to report on performance, availability and user interaction insights; made feature additions, system optimizations and UX changes based on these metrics
- Used Elasticsearch to provide customers with a search engine that would allow them to find their respective health portals in order to integrate with it and acquire data.
- Used RabbitMQ to create a service Bus architecture to retrieve data from several sources.
- Used Jenkins and docker for CI/CD.

Senior Engineer

Selfie Inc. — 05/2013 - 07/2015

- Led a team of 5 engineers through design, planning, execution and deployment of the different micro-services that comprised the application.
- Used ZeroMQ and REST for passing messages between micro services.
- Used MongoDB for data storage and Redis for caching user's timelines
- Created a Twilio API integration to provide 2 factor authentication for users of the platform.

Education

M.Sc. Computer & Software Engineering

Universidad De Los Andes, Colombia — 07/2011 - 03/2014

B.Sc. Electronics Engineer

Universidad Pontificia Bolivariana, Colombia — 06/2003 - 03/2007