

Matías M. Martínez

Costa Rica

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Work Experience

Full Stack Web/Mobile Developer

June 2023 - Current

Orbitas Software Development

San Jose, Costa Rica

- **OSS:** Asset management and maintenance application for web and mobile using C# and Flutter.
 - Spearheading the migration from .NET 4.0 to .NET 6.0.
 - Maintenance of legacy code, refactoring and improvement in various frameworks and languages: MVCs, React, jQuery, DOM.
 - Development of new client-requested features.
- **gymBe:** Fitness app prototype from the ground-up using Flutter.
 - Back-end built around microservices written in TypeScript.
 - Firebase authentication and caching of sessions via Redis.
 - GraphQL, Apollo, and TypeGraphQL implemented for efficient and type-safe DB queries.

Assistant Teacher

Mar 2022 - June 2023

UCR

San Jose, Costa Rica

- Imparting lectures and grading exams. In-depth research on topics.
- Data cleansing for statistical analysis on big datasets using R.
- Data visualization, creation of plots, and reports using ggplot and RMarkdown.

Data Clerk

Oct 2019 - Aug 2021

DHL

San Jose, Costa Rica

- Data entry and cleansing for the Exports Team. Top performer.
- SQL queries for data entry and cleansing of shipments.
- Designated as Queue Monitor for Metz shipment Gateway.
- Assigned Daily Overviews reports.
- Designed and imparted numerous trainings on data entry and typing best practices.

Education

Bachelor's in Political Science (2021-2024) [In progress]

Universidad de Costa Rica

Skills

- **Web Development:**
 - Frontend: React, Next.js 13, Svelte.
 - Backend: .NET 4.0/6.0/8.0 Web APIs and Microservices, Express, NodeJS, RabbitMQ.
 - CSS and design: TailwindCSS, MaterialUI, Bootstrap, PostCSS, Figma.
 - Databases and Tooling: PostgreSQL, MySQL, SQL Server, GraphQL, Redis, MongoDB.
 - Security: OAuth, Firebase, JWT, Session cookies, Client-Side Field Level Encryption, argon2, BCrypt.
 - DevOps Tools: nginx, Docker, VPS, Azure, AWS, Vercel, MongoDB Atlas.
- **Intermediate programming:** Javascript/TypeScript, C, C++, C#, R, Bash, Dart, Flutter.
- **Data Structures and Algorithms:** Linked lists, Stacks, Queues, Heaps, Sorting algorithms, etc.
- **Networking:** RESTful APIs, SSL Certificates, OSI Model, Cisco Fundamentals, OpenSSH.
- **Development tools and methodologies:** Vim, Git, GitHub, Tmux. Agile/SCRUM, Shortcut, Jira.
- **Linux:** Ubuntu, Arch, Fedora, Mint. Proficient terminal use, package managers, systemd.
- **Languages:** English B2+, Spanish (native).

Projects

Stacy Pizarro's Dancer Portfolio

September 2023

Deployed

San Jose, Costa Rica

- A portfolio and gallery made with Sveltekit and TailwindCSS.
- Backend built with .NET microservices and served by NGINX as a reverse proxy.
- Microservices containerized with Docker and communicated via RabbitMQ.
- MS-SQL and Entity Framework used on all microservices for data storage and CRUD.
- Server Side Rendering and Search Engine Optimization for the best user experience.
- Implementation of OAuth, JWT, and advanced middlewares for CRUD operations and administration.

Composer - Discord Bot

May 2023

Finished

San Jose, Costa Rica

- A music streaming Discord bot written in TypeScript.
- It implements data structures and algorithms such as Queue, Stack, Doubly linked list, and others.
- Capable of sorting using common algorithms like Merge Sort, Quick Sort, Insertion Sort, and others.
- Common player commands like play, pause, resume, stop, skip, and more!
- Can be self-hosted or added using REST endpoints.

Entre Hielo y Fuego catering service's MERN web app

March-April 2023

Deployed

San Jose, Costa Rica

- A quoting tool, interactive menu, reservation system for a catering service. Automated before manual calculations and labor-intensive customer service.
- Laid out in Figma. Tailor-made for the company's target audience using TailwindCSS and some MaterialUI components.
- Currently designed for mobile navigation in mind. Built with responsiveness first focus.
- Custom hooks for efficient and effective data validation and communication between frontend and backend.
- Designed and implemented MongoDB database from scratch with scalability and flexibility as a core philosophy.
- Complete set of administrative tools with CRUD operations for managing inventory and products.
- Administrative tools secured and isolated from users in its own Docker container.
- RESTful API with modern techniques, best practices, and data validation using Express.
- Secure and reliable: encryption at rest and CSFLE implementation for sensitive data.

More can be seen on my GitHub profile!