MARIO ARTURO LOPEZ MARTINEZ

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FULL-TIME EXPERIENCE

APRIL 2024 – PRESENT

AMAZON WEB SERVICES, CLOUD APPLICATION ARCHITECT (SOFTWARE ARCHITECT)

- Led the technical delivery of Allstate Insurance's contact center modernization, deploying a custom Amazon Connect solution with a React frontend and Node.js serverless microservices to migrate 500+ agents to production, resulting in $62,000 in immediate licensing cost reductions (projected $1.3M+ over 5 years).
- Spearhead the architecture and development of a new Auction Notification infrastructure for Amazon Logistics, directing the technical implementation for a team of 7 SDEs using Java and internal build systems (Brazil, Pipelines) to enhance a critical component of Amazon's global logistics network.
- Architected and developed highly scalable, .NET-based APIs using AWS CDK for Navitus Health Solutions, enabling data service modernization to support goal of onboarding 1 million new users and achieving a 10/10 customer satisfaction score.

SEPTEMBER 2022 – MARCH 2024

AMAZON WEB SERVICES, CLOUD APPLICATION DEVELOPER (BACKEND SOFTWARE ENGINEER)

- Created an event-driven, Python-based, containerized batch processing solution via Terraform IaC that significantly improved efficiency for Johnson & Johnson's cross-account data transfer challenges, achieving over a 97.5% process efficiency gain.
- Delivered 37 new features and 353 security fortifications for Telecom Argentina's mission-critical Operations Dashboard (React, Node.js), used daily by 5,000+ field technicians. Contributions were pivotal in securing a 10/10 Satisfaction score and a multi-year contract extension.

NOVEMBER 2021 – SEPTEMBER 2022

GARTNER INC., FULL-STACK SOFTWARE ENGINEER

- Pioneered the company's adoption of the Next.js front-end (React based) framework after independently building 2 large-scale Proof of Concepts and hosting 3 technical workshops; my team is the first in our company to adopt this technology, allowing us to define the future of front-end engineering at Gartner.
- Modernized large-scale enterprise-grade systems from .NET Core 2.X / .NET Framework 4.X to .NET 6 & Angular 8.X to Angular 13.X, leading to performance improvements of up to 60% across the entirety of our systems.

JULY 2020 – OCTOBER 2021

EXXONMOBIL CORPORATION, FULL-STACK SOFTWARE ENGINEER

- Built and deployed RESTful API leveraging the .NET 5 framework from the ground up, as an individual effort. The API processed 4+ million responses daily across 12 endpoints, enabling 6 teams to secure access to the 80+ TB of field asset data.
- Refactored 30,000-line monolith using clean architecture, various design patterns; individually presenting learnings at annual ExxonMobil CODE Conference with 2,000+ IT professionals in attendance (virtual and in-person).
- Retired an on-prem database solution and migrated to a cloud-hosted solution, leading to cost savings of $10,000+/month.
- Leveraged Redis Cache and optimization of SQL queries to reduce API response times from 10 seconds to ~.25 seconds.

LEADERSHIP & VOLUNTEERING

APRIL 2025 – PRESENT

LATINOS@AMAZON – HOUSTON CHAPTER, FOUNDING VICE PRESIDENT

- Spearheaded the establishment of the Latinos@Amazon Houston chapter, securing executive sponsorship, organizational funding, and leading the official chartering process from concept to launch.
- Designed and executed Amazon's first-ever Career Day partnership with the non-profit Breakthrough Houston, creating a full-day immersive experience for 30 middle school students from historically excluded communities.
- Drove community engagement by organizing key initiatives, including mobilizing a record 30 volunteers for a high school graduation event and coordinating a food drive that provided over 1,000 meals to 50+ local families.

JANUARY 2022 – PRESENT

OPEN-SOURCE PROJECT – DESKTOP AUTOMATION SOFTWARE, LEAD DEVELOPER AND ARCHITECT

- Leading a globally distributed team of 17 developers to maintain and add new functionality to our Cloud-Enabled .NET WPF Desktop Client with 20,000+ active users (and over 314,000 total downloads) on a steady 4-month release cycle.

EDUCATION

BAYLOR UNIVERSITY, SCHOOL OF ENGINEERING & COMPUTER SCIENCE, B.S. COMPUTER SCIENCE — MAY 2020