

MARIO ARTURO LOPEZ MARTINEZ

🌐MarioLopez.org ✉️mario@lopez.fyi 🌐HiMarioLopez 🌐HiMarioLopez

FULL-TIME EXPERIENCE

DECEMBER 2025 – PRESENT

VERCEL, PLATFORM ARCHITECT [IC4]

- Drive architecture and performance strategy for Vercel's most strategic accounts, leading production-ready deployments of modern web and AI workloads and codifying best practices into reusable blueprints that scale customer adoption.

AUGUST 2025 – NOVEMBER 2025

AMAZON WEB SERVICES, SOLUTIONS ARCHITECT - SOFTWARE, INTERNET, AND GENERATIVE AI MODEL PROVIDERS [L5]

- Led architecture reviews for ISV and internet-native customers (up to \$500M ARR), improving reliability, security, and cost efficiency per AWS Well-Architected Framework, identifying \$50K/month in savings after assessment of varied workloads.
- Advised CTO/CISO/VP Engineering stakeholders on cloud strategy, rightsizing, and modernization, influencing \$12M+ in annual AWS spend and guided production-ready designs for large-scale, customer-facing workloads.
- Partnered with product, support, and specialist teams to resolve critical issues (including an Amazon SES Mail Manager defect) and unblock complex RDS workloads, strengthening platform adoption and trust for a key strategic account.

APRIL 2024 – AUGUST 2025

AMAZON WEB SERVICES, CLOUD APPLICATION ARCHITECT (SOFTWARE ARCHITECT) [L5]

- 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).
- Spearheaded 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.

SEPTEMBER 2022 – MARCH 2024

AMAZON WEB SERVICES, CLOUD APPLICATION DEVELOPER (BACKEND SOFTWARE ENGINEER) [L4]

- 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.

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 was the first in our company to adopt this technology, allowing us to define the future of front-end engineering at Gartner.

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.
- 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 optimized SQL queries to reduce API response times from 10 seconds to ~.25 seconds.

LEADERSHIP & VOLUNTEERING

APRIL 2025 – NOVEMBER 2025

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.

JANUARY 2022 – PRESENT

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

- Leading a globally distributed team of 19 developers to maintain and add new functionality to our Cloud-Enabled .NET WPF Desktop Client with 20,000+ active users (and over 325,000 total downloads) on a steady 3-month release cycle.

EDUCATION

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