

MARIO ARTURO LOPEZ MARTINEZ

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

FULL-TIME EXPERIENCE

APRIL 2024 – PRESENT

AMAZON WEB SERVICES, CLOUD APPLICATION ARCHITECT (SOFTWARE ARCHITECT)

- Conducted an Application Modernization Assessment, architected, and developed highly scalable, AWS-hosted .NET-based APIs for Navitus Health Solutions via AWS CDK IaC, enabling the modernization of data services and seamless integration with new third-party vendors, essential for scaling to accommodate 1 million new members by 2025. These contributions, which included over 80 hours of AWS workshops and training sessions led by Mario, were instrumental in achieving a perfect 10/10 Customer Satisfaction score and continued partnership through the end of 2024.

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.
- In a collaborative effort on a 7-member team for Telecom Argentina, a significant portion of the development tasks, representing 43% of the workload, was managed solely by Mario to enhance their React-based and Node.js GraphQL-enabled Operations Dashboard via AWS CDK and CloudFormation critical for over 5,000 field technicians, daily. This direct contribution accounted for the introduction of 37 new features, a total of 353 security fortifications to their cloud implementations, alongside personally leading 7 AWS workshops. These collective contributions not only secured a 10/10 Customer Satisfaction score but also played a pivotal role in Telecom Argentina extending their partnership by another year.

NOVEMBER 2021 – SEPTEMBER 2022

GARTNER INC., FULL-STACK SOFTWARE ENGINEER

- Developed, from scratch, an unannounced flagship product using 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 pioneer the future of front-end engineering at Gartner.
- Support flagship products such as the Gartner Hype Cycle™ and Gartner Magic Quadrant™, delivering new features and performance enhancements to tools used by over 2,200 analysts and researchers to deliver insights to our thousands of executive clients around the globe.
- Modernize 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

JANUARY 2022 – PRESENT

OPEN-SOURCE PROJECT – DESKTOP AUTOMATION SOFTWARE, LEAD DEVELOPER

- 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 294,000 total downloads) on a steady 4-month release cycle.

JANUARY 2022 – PRESENT

BAYLOR UNIVERSITY SCHOOL OF ENGINEERING AND COMPUTER SCIENCE, ALUMNI MENTOR

- Establish a pathway to success for 9 former and current Computer Science undergraduates to achieve their academic and professional goals over the course of an academic semester.

EDUCATION

AUGUST 2016 – MAY 2020

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