MARIO ARTURO LOPEZ MARTINEZ

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EDUCATION

AUGUST 2016 – MAY 2020

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

FULL-TIME EXPERIENCE

NOVEMBER 2021 – PRESENT

GARTNER INC., FULL-STACK SOFTWARE ENGINEER

- Develop, from scratch, an unannounced flagship product using the Next.js front-end (React based) framework after independently building 2 large-scale PoCs 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 hundreds of 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
- Develop and optimize visual graphics libraries that integrate with D3.js to produce high-quality chart/graph design tools used by hundreds of analysts across our organization
- Leverage various modern DevOps technologies (e.g. Bitbucket, Jenkins, Docker, EKS) to deploy our applications to AWS with zero downtime, and ensure sure our services are available globally with an uptime of at-least 99.99%

JULY 2020 – OCTOBER 2021

EXXONMOBIL CORPORATION, FULL-STACK SOFTWARE ENGINEER

- Built and deployed multi-threaded RESTful API leveraging the .NET framework from the ground up, as an individual effort; 4+ million responses daily across 12 endpoints, enabling 5+ teams 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 a data storage 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

FEBRUARY 2022 – APRIL 2022

GARTNER CREW LEADERSHIP DEVELOPMENT PROGRAM, PARTICIPANT

- Selected for competitive 8-week program to network with high level executives across multiple business units and geographic locations in an effort to better our corporate culture and develop strategies for achieving key business objectives

JANUARY 2022 – PRESENT

OPEN SOURCE PROJECT – DESKTOP AUTOMATION SOFTWARE, LEAD DEVLOPER

- Lead a globally distributed team of 14 open source contributors to maintain and add new functionality our .NET app with 5,000+ active users on a steady 4 month release cycle
- Successfully deliver a quality application to a global audience, achieving over 144,000 downloads in 1.5 years

JANUARY 2022 – PRESENT

BAYLOR UNIVERSITY SCHOOL OF ENGINEERING AND COMPUTER SCIENCE, ALUMNI MENTOR

- Establish a pathway to success for current 5 Computer Science undergraduates to achieve their academic and professional goals over the course of an academic semester

HONORS

- **2020 Outstanding Service Award** Baylor CS Department
- **2019 cloudJam Hackathon Winner** ExxonMobil IT
- **2018 Upsilon Pi Epsilon Inductee** Baylor CS Department
- **2018 Presentation to President and CIO** ExxonMobil GSC
- **2018 SpaceX Sponsorship** for student-community projects

SKILLS

- **Web Development** (Next.js, React, .NET, Angular)
- **Cloud Services** (Azure, AWS; CI/CD via Azure DevOps, GitHub, Jenkins)
- **Object-Oriented Programming** (C#, Java, Python, Kotlin, , C++)
- **Data Services** (PostgreSQL, MySQL, NoSQL, KQL, Redis, S3, Data Dog)
- **Bilingual Fluency** (English and Spanish)