

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

JULY 2020 – PRESENT

EXXONMOBIL CORPORATION, FULL-STACK SOFTWARE ENGINEER

- Leveraging the .NET framework to develop multi-threaded RESTful APIs capable of delivering 4+ million responses daily, enabling advanced visualization and analytics of field asset data
 - Leveraged Redis Cache and optimized SQL stored-procedures to reduce response times by up to 80% on our APIs
 - Maintain 3 separate web applications built using the Angular and React frameworks deployed to an Azure App Service
 - Automate testing, deployment of projects and project documentation (OpenAPI + Swagger) using pipelines and infrastructure as code saving 50+ work-hours of effort every 2-week sprint for a team of 7 developers
 - 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
 - Serve as a technical mentor to 3 interns across 3 different countries to provide an enjoyable and inclusive internship experience filled with various learning and growth opportunities
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INTERNSHIP EXPERIENCE

MAY 2019 – AUGUST 2019

EXXONMOBIL CORPORATION, DIGITAL INNOVATION ANALYST INTERN

- Assessed industry-leading machine learning (ML) platforms available on Azure and AWS; development, deployment, and testing of RL models using Python (PyTorch) and Jupyter Notebooks

MAY 2019 – JULY 2019

EXXONMOBIL CORPORATION, DIGITAL EXPLORATION LEAD – ARTIFICIAL INTELLIGENCE INTERN

- Developed a hands-free productivity app as the sole contributor using the Android SDK (Java + Kotlin); app piloted by 10 field engineers ultimately cut media annotation time by 77% (As of August 2021, it is still being used in 3 continents)
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LEADERSHIP & VOLUNTEERING

DECEMBER 2018 – MAY 2020

THE WACODE TEAM, FOUNDER & PRESIDENT

- Fundraised over \$10,000 from 8 corporate sponsors which hosted workshops and on-site interviews for participants
- Developed wacode.org using React, deployed via Heroku; mobile-friendly design enabled 100+ registrations

DECEMBER 2017 – MAY 2020

COMPUTING FOR COMPASSION, PRESIDENT

- Provided IT consulting to 5+ Waco nonprofits to expand on IT infrastructure, alongside 30+ members (initially 4)
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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** (.NET, Spring, Angular, React)
- **Cloud Services** (Azure, AWS; CI/CD via ADO, GitHub, Heroku)
- **Object-Oriented Programming** (Java, Kotlin, C#, C++)
- **Data Services** (SQL, NoSQL, KQL, Redis)
- **Bilingual Fluency** (English and Spanish)