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| Full-Time Experience |
| APRIL 2024 – PRESENTAMAZON 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 2024AMAZON 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 2022GARTNER INC., full-stack software engineerDeveloped, 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 2021EXXONMOBIL CORPORATION, full-stack software engineerBuilt 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 developerLeading 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 – PresentBaylor University School of Engineering and Computer Science, Alumni MentorEstablish 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 2020Baylor University, School of Engineering & Computer Science, b.s. computer science |