Miguel Mellado
Software Engineer

WORK EXPERIENCE

.Net Developer

Macquarie | Jan 2023 - Present

As a full-time .NET developer, I collaborated with DBAs to migrate an entire On-Prem distributed system, encompassing web services, client applications, messaging queues, SQL Servers, and task processors, to a cloud environment without significant architectural changes.

- Engineered an automated deployment pipeline for a web service, employing PowerShell scripting, CyberArk identity management, and our proprietary cloud infrastructure platform, seamlessly integrating EC2 instances, ELB, FSx Windows File System, and external endpoints.

- Validated cloud solutions to ensure strict adherence to security and compliance protocols dictated by our internal cloud infrastructure platform, which diligently enforced market-regulated and risk management constraints.

- Effectively tackled a spectrum of challenges within the CI/CD pipeline, leveraging expertise in areas encompassing Windows Authentication, Internet Information Services, Active Directories, Security protocols, and Disaster Recovery methodologies.

- Built, planned, assessed and prioritized cloud-related initiatives to inspire trust and confidence in senior partners and business users

- Oversaw and optimized User Acceptance Testing (UAT) and Production environments within both AWS and the company's internal cloud infrastructure platform, ensuring meticulous attention to security, performance, scalability, availability, and operational efficiency.

- Conducted an in-depth assessment and predictive analysis of system performance in cloud versus on-premises environments through payload simulation, augmented logging, and meticulous monitoring of Stored Procedures execution durations.

- Engaged in daily scrum sessions to define daily objectives while maintaining a strategic focus on overarching deliverables; furnishing constructive input to fellow team members and adeptly mitigating any impediments.

PROFILE

Innovative .NET Developer with three years of demonstrated excellence in architecting, developing, and optimizing legacy .NET applications tailored for the commodities market.

Leveraging a strong background in cloud technologies, I bring a proven ability to design scalable and resilient solutions that fuse the power of .NET with the flexibility of cloud platforms.

My tenure at Macquarie in Houston has honed my ability to thrive in fast-paced environments, delivering high-quality software that meets the unique demands of commodities trading.

SKILLS

Technical

★★★★★ C#

★★★★☆ Powershell

★★★★☆ SQL

★★★★★ AWS

★★★★★ React

★★★★★ CI/CD Pipelines

★★★★☆ Database Management

★★★★★ Java

★★★★☆ Python

★★★★★ ASP.NET

★★★★★ Networking

miguelmellado619@gmail.com

WORK EXPERIENCE

.Net Developer

Wiley Edge | Jan 2022 - Jan 2023

I commenced my journey at Macquarie as a Wiley Edge consultant, initially supporting a legacy reconciliation application pivotal for internal auditing and financial regulatory compliance. Demonstrating technical proficiency, I expanded responsibilities to include maintenance of a .NET application for static data access. Subsequently, I played a crucial role in sustaining a high-revenue, mission-critical gas scheduling application, which demanded continuous online availability. My contributions led to a seamless transition to full-time employment following the contract period.

- Orchestrated end-to-end deployment, subsequent validation, and continual maintenance for a portfolio of five distinct .NET applications.

- Enhanced and reengineered the sorting algorithm for the reconciliation process, resulting in a remarkable runtime reduction from 2 hours to a mere 10 minutes through strategic utilization of hash maps, caching mechanisms, and garbage collection.

- Improved future development activities by documenting procedures, errors and results.

- Supported fellow development team with code reviews, brainstorming and guidance.

- Investigated new and emerging technologies to improve our efficiency and workload such as different data solutions and AI.

- Participated in the full software development life cycle from scoping, analysis, design, implementation and quality assurance to delivery and support.

EDUCATION

San Francisco State University
Bachelor of Science in Computer Science| June 2021

PROJECTS

Reason Not the need

Fabula(b) | Jan 2021 - Aug 2021

As a student developer, I led the creation of an Augmented Reality prototype using C# and Unity, presenting an AR adaptation of Shakespeare's 'King Lear' which can be experienced from any iOS device.

Miguel Mellado
.Net Specialist

SKILLS

Professional

★★★★☆ Problem Solving
★★★★★ Algorithms
★★★★★ Data Structures
★★★★★ SDLC
★★★★☆ Version Control
★★★★★ Agile Methodology
★★★★★ Communication Skills
★★★★★ Debugging
★★★★★ Testing / PVT
★★★★☆ Full stack
★★★★★ Windows
★★★★★ Services
★★★★☆ Unix Systems

Interest

- Soccer, Boxing, baseball and MMA
- Participated in the MS 150, a 150-mile charity cycling event.

LANGUAGES

- English (Native)
- Spanish (Native)

CONTACTS

Houston, TX 77002 USA

miguelmellado619@gmail.com

(619)213-3082