Andres Perez

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SUMMARY

- **Full-Stack .NET Software Engineer** with 4+ years of experience building secure, scalable applications across healthcare, property & casualty, and government sectors.
- **Led the architecture, development, and deployment** of a high-impact, cross-platform application powered by a scalable **Azure and C# API backend**, significantly reducing patient isolation and featured on **CBS News**.
- **Led the integration of three medical T-SQL databases** into a unified .NET system, improving healthcare staff efficiency and patient care delivery.
- **Migrated enterprise codebases** from .NET 7 to .NET 8 and **resolved LINQ compatibility issues** related to **breaking changes in SQL Server**.
- **Leveraged previous experience as a lead trainer** to drive knowledge transfer, successfully mentoring new engineer interns and creating technical documentation to ensure long-term team efficacy and code consistency.

PROFESSIONAL EXPERIENCE

Columbia Southern University   Orange Beach, AL
C# ASP.NET | T-SQL Developer
(4 person development team)   April 2024 - Present
*Columbia Southern University is an accredited online university serving over **18,000 students** with a staff of 300+, offering degree programs to students across the U.S.*

- **Maintained and optimized the MVC ASP.NET Core-based School Portal** (4-person team), collaborating with a separate team managing the legacy **VB.NET** Omega system.
- **Collaborated closely with stakeholders** to implement new features, resolve bugs, and **optimize mission-critical workflows** impacting billing, enrollment, and student communication.
- Supported a high-traffic university portal used by **18,000+ students**, delivering key payment features and **T-SQL stored procedure updates** for complex billing workflows.
- **Created and maintained complex T-SQL stored procedures and SQL queries** utilized by hundreds of employees, **streamlining support operations** across the university.
- **Engineered new portal functionality** to trigger automated email notifications to **18,000+ students** during billing changes, **significantly improving transparency and reducing support tickets.**
- **Directed thorough testing workflows** for every release, including change documentation and multi-environment **regression testing** (dev/staging).
- Delivered feature updates in biweekly release cycles, actively participating in **Agile** ceremonies and sprint planning with cross-functional teams.
- **Led the front-end modernization of the high-traffic Prospect Portal** from ASP.NET Core to a **React, NextJS, and TypeScript** stack, resulting in **positive student feedback** from pre-release betas.
- **Mentored and provided one-on-one training** to a new engineering intern on core systems and development practices, while actively **preparing technical documentation** for publication by the end of the year to support knowledge transfer.

MDM Commercial (JourneyPX Division)   Ponte Vedra Beach, FL
C# .NET | T-SQL | Mobile Developer
(3-4 person development team)   August 2022 - January 2024
JourneyPX is a healthcare technology division within MDM Commercial focused on patient experience. Its solutions serve hospitals across the U.S., including St. Anthony's Hospital.

- **Drove the design and implementation of the core services layer** (**C# / Azure API**) to power a mission-critical, cross-platform application, abstracting native **iOS and Android development** from the centralized .NET business logic.
- *App featured on CBS News*, highlighting its impact in connecting new mothers to family remotely in hospital maternity units with an **ASP.NET Core MVC** project display in the patients TV.
- **Implemented highly-scalable Azure Notification Hubs** within the core **C# API backend** to reliably deliver push notifications across the Swift (iOS) and Java (Android) client applications.
- **Engineered and integrated dynamic deep linking solution** (via **Firebase** and **Twilio** SMS) with the core **C# API**, enabling seamless, OS-aware patient/family onboarding. Directed users to the correct app store from a single shared link.
- **Drove the critical, large-scale migration of the production codebase** from **.NET 7 to .NET 8**, ensuring platform stability and resolving compatibility issues with **SQL Server**.
- **Led the technical evaluation of cross-platform UI frameworks,** implementing early front-end proofs of concept using **XAML** and **.NET MAUI**, before making the **strategic decision to pivot** due to platform immaturity.
- **Validated and continually enhanced security protocols** to ensure the hospital-family communication feature met stringent **HIPAA** requirements for data privacy and security across the entire stack.
- **Created and delivered training documentation** for the engineering team on newly developed features and architectural components, ensuring successful adoption and knowledge transfer following deployment.

UCS-Inc   Fairfax, VA
C# .NET | T-SQL Developer
(5 person development team)   April 2022 - July 2022
UCS-Inc supports U.S. government clients with enterprise-level software systems, including those used across Military Health Systems (MHS).

- **Spearheaded the integration of three separate T-SQL medical databases** into a unified .NET system, substantially **improving healthcare staff efficiency and patient care delivery.**
- **Resolved a critical T-SQL data duplication bug** in a production script, **wrote a corrective T-SQL script to clean the resulting bad data**, ensuring data integrity for over 100,000 military personnel.
- **Wrote and optimized T-SQL stored procedures** to ensure efficient data retrieval, supporting a large-scale system responsible for tracking **over 100,000 Marines and Sailors**.
- Collaborated on the **LIMDU SMART system** for the U.S. Navy, a platform supporting readiness tracking in military hospitals.
- Security clearance **granted July 14, 2022**, to work with sensitive healthcare and personnel data.
- Used **C#, Entity Framework, and SQL Server** to build and maintain backend services; updated stored procedures and data logic.
- Agile sprint planning using **Azure DevOps and Jira**.

Insuresoft   Tuscaloosa, AL
VB.NET | T-SQL Developer
(4 person development team)   February 2021 - April 2022
Insuresoft builds insurance software solutions for Property and Casualty (P&C) carriers nationwide, supporting millions in premiums and claims processing.

- **Maintained and extended core business logic** (Product Extensions and Rating Systems) using **VB.NET** and **SQL Server**, ensuring system reliability for critical insurance processes.
- **Engineered and updated core algorithms** within Comparative Rater tools to accurately calculate premiums, credits, and agent quotes, directly supporting sales operations.
- **Translated complex client requirements** into robust **VB.NET backend logic**, defining data structures, rating tables, and policy rules to accurately model new insurance products.
- **Drove quality assurance and system reliability** by debugging high-priority issues that blocked quote generation, resulting in **reduced agent escalations** and improved quote accuracy.
- **Contributed to a full-stack environment** utilizing **VB.NET** for core server-side development, managing configuration via **XML**, and deploying features through **Azure**.
- As a member of the **Development Standards Team**, authored internal documentation detailing **VB.NET best practices** and providing **C# translation examples** to ensure consistent coding during the codebase migration.

EDUCATION
LaunchCode LC101: *In Person Coding Bootcamp*   June 2019 - February 2020
Treehouse: *Front-End Tech Degree*   March 2019 - June 2019
Palm Beach State College: *Associate of Arts*   August 2013 - May 2015

CONTINUING EDUCATION
Dometrain
Coder Foundry
Pluralsight

TECHNICAL SKILLS
Languages: *C#, VB.NET, T-SQL, TypeScript, HTML, CSS, JavaScript.*
Frameworks: *.NET (Core),* [ASP.NET](), *Razor, React, NextJS*
Libraries: *jQuery*
Cloud Messaging: *Firebase, APNs, Azure Notification Hubs*
Databases: *Microsoft SQL Server, Azure SQL, Postgres*
Tools: *Visual Studio, Git, Azure DevOps, Jira*
Other: *Stored Procedures, REST APIs, LINQ*

Portfolio Site: https://andresperezcodes.dev/