

Henry Diaz

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Galaxe.Solutions

Feb 2023 – Present

Lead Senior .NET Developer

Remote

- Crafted and maintained RESTful API endpoints utilizing ASP.NET Core, with EF core and Azure SQL Database as the backend.
- Developed web client applications employing HTML, CSS, JavaScript, jQuery, Bootstrap, Blazor, React, and Redux to consume the APIs.
- Contributed to UI creation using React, Redux, and Knockout.js to automate existing workflows and enhance development productivity.
- Documented APIs with Swagger to facilitate seamless integration and serve as a reference for other teams.
- Created YAML configurations for Kubernetes, Bicep/ARM templates, and Azure DevOps CI/CD pipelines.
- Extensively utilized Elastic Kubernetes Service, configuring YAML for Kubernetes and optimizing Kafka topics for seamless data distribution.
- Managed Azure Cosmos DB in a cloud environment, formulating custom queries for dynamic data searching.
- Conducted load and performance testing with tools like JMeter to ensure application scalability and reliability.
- Implemented unit testing on API services utilizing testing frameworks such as NUnit for robust logic verification.
- Led the integration of Azure Databricks for enhanced data processing and analytics workflows, significantly improving processing efficiency.
- Managed the migration of legacy systems to Azure Databricks, effectively reducing operational costs and improving system reliability.
- Developed predictive analytics models within Azure Databricks, leveraging advanced machine learning techniques to enhance model accuracy.
- Employed Microservices architecture to achieve scalable and modular application design.
- Implemented and integrated LLM-based generative AI frameworks/platforms into existing applications, expanding the capabilities of natural language understanding and text generation.
- Configured and optimized Kafka topics and partitions for efficient data distribution, ensuring seamless integration within the application's architecture.

Episource

Apr 2018 – Jan 2023

Senior Software Engineer

South Jordan, Utah

- Developed healthcare software applications for Healthcare Payers and Providers, overseeing the entire software life cycle from requirements definition to successful deployment. Utilized C#, ASP.NET, SQL Server, JavaScript, HTML, CSS, React, and web services for the company's Medical Coding and Chart

retrieval software.

- Implemented GraphQL in several microservices, enhancing the efficiency of data retrieval and interaction between different components.
- Created YAML configurations for Kubernetes, Bicep/ARM templates, and Azure DevOps CI/CD pipelines.
- Implemented automated testing with Selenium and Jest for EpiAnalyst (Risk Adjustment Analytics App) and configured continuous integration using Jenkins to minimize UI errors.
- Skillfully utilized SSRS to design and generate interactive, data-rich reports, enhancing data visualization and decision-making capabilities.
- Conducted training sessions for the Software Developer Team on testing best practices.
- Utilized Kafka Connect for seamless integration with external systems, enhancing data flow across the application ecosystem.
- Developed and fine-tuned machine learning models for healthcare data analysis, contributing to more efficient decision support systems.
- Applied Python for scripting and automation in data-related tasks, ensuring the integrity and accessibility of healthcare data.

Verisk

Aug 2012 – Mar 2018

Software Developer II

Tampa, FL

- Deployed server instances on AWS, using .NET technologies, Swagger, and Tomcat for Microservices deployment.
- Developed messaging module using .NET technologies, including Spring JMS, Apache Camel, and Active MQ. Other services were built using Nest.js and .NET.
- Developed and maintained interactive and dynamic web pages with cross-browser compatibility using hand-coded semantic HTML, CSS, JavaScript, React, and Bootstrap.
- Deployed server instances on AWS, using .NET technologies, Swagger, and Tomcat for Microservices deployment.
- Developed messaging module using .NET technologies, including Spring JMS, Apache Camel, and Active MQ. Other services were built using Nest.js and .NET.
- Developed and maintained interactive and dynamic web pages with cross-browser compatibility using hand-coded semantic HTML, CSS, JavaScript, React, and Bootstrap.

Yahoo

Apr 2009 – Aug 2012

Software Developer

Richardson, TX

- Engaged in multiple web-based projects, encompassing the company's premier Digital Asset Management offering, Collective, the Smartimage image management tool, and the intricate Angular – powered application, Portals.
- Undertook server-side development utilizing .NET MVC, alongside client-side development employing jQuery, Backbone, Angular technologies.
- Skillfully honed expertise in crafting intricate web applications that precisely cater to the intricate requirements of discerning clients during the course of these projects.

EDUCATION

ITT Technical Institute

BS, Computer Science

Graduation Sep, 2008

Tampa, FL

SKILLS & INTERESTS

Skills – C#, JavaScript, TypeScript, ASP.NET core, ASP.NET MVC, Kendo UI, Angular, React, Material UI, jQuery, MS, SQL, MongoDB, Postgres, Azure DevOps(CI/CD), Web API, Rxjs, HTTP, ADAL, OOPS, Agile Methodology, T-SQL, WCF, XML, WinForms, WPF, XAML, LINQ, Razor, Entity Framework, TDD, AWS, Restful API, GraphQL, Postman, Git, etc

RECENT PROJECTS

1. Clinical Documentation Improvement (CDI) Services (Episource)

At Episource, I was the lead developer in the CDI Services project. This initiative aimed to enhance the quality and accuracy of clinical documentation within healthcare organizations. The project involved utilizing advanced technologies to streamline the CDI process and ensure compliance with healthcare industry standards.

Used Technologies: .NET Core 6+, C# 10, EFCore, AutoMapper, Hangfire, NLog, React, TypeScript, jQuery, Axios, Bootstrap, google map, Foxit SDK, Neodynamic SDK, Azure, Azure SMS, Azure Blobs, MySQL, Azure SQL Database, Redis, KeyClock for SSO.

2. HealthOpx(Collaborative hub for Community–Based Organizations, Episource)

Episource collaborated with HealthOpx, and I contributed to the development of their platform. HealthOpx serves as a collaborative hub for Community–Based Organizations, health systems, and payers. Leveraging C#, .NET Core 5.0, JavaScript, and React, I played a key role in implementing features such as authentication, profile management, and service request handling. I effectively tackled challenges, including intricate authorization implementation, complex data table filters, and overseeing the lifecycle of service requests.

Used Technologies: .NET Core 5+, C# 10, EFCore, AutoMapper, Hangfire, NLog, React, JavaScript, jQuery, Axios, Kafka, Bootstrap, google map, Foxit SDK, Neodynamic SDK, Azure, Azure SMS, Azure Blobs, MySQL, Azure SQL Database, Redis, KeyClock for SSO.

3. Indysoft (Industry Automation, Calibration System, Galaxe.Solutions)

I defined the entire architecture in this project, introduced onion and clean architecture, repository patterns, and DI, and wrote testable code. We also implemented multitenant support and different versions like Enterprise, Lite, and Multi–Company. One of the challenges I faced was that, initially, the project needed to follow architecture. We had to change the entire coding structure to follow the onion and clean architecture while keeping the existing features and functionalities.

Used Technologies: .NET MVC, C#, EFCore, AutoMapper, Hangfire, NLog, Angular 6, 7, 8, TypeScript, jQuery, Axios, Kafka, bootstrap, Google Maps, DevExpress, Foxit SDK, Neodynamic SDK, Azure, Azure SMS, Azure Blobs, MSSQL, Redis, etc

4. Bank Innovation Hub(Middlesex Federal Savings, Verisk)

I specialized in developing RESTful APIs using the .NET Core framework and C# for various banking applications,

including Internet Banking, ACH services, NovoPay, NovoCollection, and internal applications. My role encompassed continuous integration and deployment of these .NET Core applications to both IIS Web Servers and the Azure Cloud platform. I also took charge of comprehensive testing, covering Unit, Functional, Integration, and Load testing for new applications and upgrades to existing ones. Additionally, I was responsible for designing and building applications that facilitate various bank operations, emphasizing continuous improvement to minimize errors and enhance performance. I actively implemented and supported technology solutions tailored to meet customer and business needs. Furthermore, I provided second-level support for non-core banking and e-banking solutions. My role also involved process automation and the analysis of user requests to devise effective solutions.

Used Technologies: .NET Framework, Kafka, Elastic Search Kibana, Redis, Worker Service for Background Services, Signal R / Web Socket, Hangfire, TFS for Source Control, Azure DevOps, Azure Pipeline, Jenkins for CI/CD, IIS, etc