MARK GUERRERO

FULL STACK SOFTWARE ENGINEER - React, React Native, C#, AI, Machine Learning

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SUMMARY

As a seasoned software engineer with extensive experience in both front-end and back-end development, adept at creating dynamic, user-centric web applications and services. Skill sets include a deep understanding of C# and modern web technologies such as HTML, CSS, JavaScript, Angular, React, and React Native, complemented by experience in Material UI, NodeJS, and Azure Cloud. Committed to utilizing a diverse industry experience to create innovative projects and collaborate effectively with teams.

CERTIFICATIONS

React Developer NanoDegree - (https://confirm.udacity.com/E2YCVZXH)
Front End Web Developer NanoDegree - (https://confirm.udacity.com/NFFMDKZU)

WORK EXPERIENCE

Nutrien / / *Software Engineer React/React Native / /*   2021 – 2024

- Maintained and enhanced UnifiedHub, a React/React Native mono repo app serving as an e-commerce platform for internal use and crop consultants, utilizing Node.js and GraphQL backends. ***Collaborated across teams to improve usability and performance***.
- Eliminated bugs, improved usability, and delivered enhancements for the **Simplified Work Order** and **Sales Document Work Order** by collaborating cross-functionally with the backend team and engaging the design and product team.
- Resolved production issues on GraphQL data and visual bugs by refactoring custom Material UI-based and Bonsai components. Delivered higher-quality ***components that resulted in prompt delivery of enhancements***.
- Contributed to a ***40% performance improvement*** by eliminating unnecessary re-renders, lazy loading non-critical data, and caching previously accessed branch and sales information.
- **Increased mobile user engagement by 70%**, enabling clients to access critical information and tools from the field, enhancing the timeliness and efficiency of agricultural decisions.
- Started learning how to train models using Tensorflow to predict the amount of chemical/fertilizer that a crop consultant will need to order based on various parameters.
- **Technical Skills**: React, React Native, Node.js, GraphQL, Material UI, Bonsai, NextJS, ChatGPT, Prompt Engineering, Tensorflow

Boom Fantasy / / Software Engineer - React/React Native / /   2020 – 2021

- Develop and optimize administrative features for contest and promotion management to improve gaming products' functionality and user experience (Predictor, NBC Sport, and Barstool Sports).
- Engineered a dynamic content-saving system for an Admin tool, reducing content update and management time across all products and ***increasing operation efficiency by as much as 20%***.
- Implemented a versatile contest creation feature within the Predictor app's admin tool using NextJS, contributing to a **25% increase in user engagement and a 15% rise in daily active users**.
- Designed and executed an advanced schema output generation system based on selection criteria, achieving a **76% accuracy rate in live feeds** and enhancing the user experience.
- **Technical Skills:** Node.js, Jest, React, React Native, Kubernetes, Postman, NextJS

HCA Healthcare / / Full Stack Software Engineer - React/React Native/ /   2019 – 2020

- Spearheaded the development of innovative **Patient Tracker solutions** and **Virtual Registration workflow** optimizations using React, Redux, Material UI, NodeJS, SQL Server, and GraphQL, enhancing patient care and operational efficiency.
- Pioneered a mobile Patient Tracker with React Native and implemented Redis for efficient data caching, resulting in a **30% reduction in patient wait times** and improved accessibility and response times.
- Achieved a **25% improvement in patient satisfaction scores**, as measured by post-visit surveys, by offering a more transparent and responsive care journey.
- Increased system reliability and data consistency by **40%, minimizing errors in patient tracking and care coordination**.
- Streamlined VR workflow processes, resulting in a **20% increase in patient admissions and discharge throughput**.
- Encouraged team collaboration and knowledge sharing, **improving overall team morale and productivity by 25%**.
- **Technical Skills:** React, Redux, Material UI, React Native, NodeJS, SQL Server, GraphQL, Redis, C# .Net

StratFS / / Lead Full Stack Software Engineer - Node JS, C# / /   2018 – 2019

- Successfully led the migration of multiple legacy .Net applications to modern architecture using NodeJS microservices hosted on Heroku, improving application scalability and **reducing server response times by approximately 30%**.
- Collaborated with a senior developer to redesign and develop a Sales Tool application using .Net and NodeJS, including the initial setup of MongoDB collections and OAuth authentication, resulting in a **25% increase in sales team efficiency**.
- Spearheaded the implementation of Jenkins in the QA environment, enhancing the CI/CD pipeline, **reducing deployment times by 40%, and increasing deployment reliability**.
- Facilitated the team's transition from .Net/SVN to OAuth, Box, Heroku/GitHub, improving development workflow, code versioning, and collaboration practices, leading to a **20% increase in development speed**.
- Developed a React-based web application leveraging Socket.IO to display images and PDFs in real-time during sales presentations, **contributing to a 15% improvement in client engagement and satisfaction**.
- **Technical Skills:** NodeJS, Heroku, MongoDB, OAuth, Jenkins, C# .Net, React, Socket.IO

Schlesinger Group / / Full Stack Software Engineer - C#, React, Javascript / /   2015 – 2018

- Redesigned and migrated the mobile application from Angular to React Native, significantly improving performance and cross-platform compatibility.
- Developed RESTful Services API to streamline User and Assignment functionalities, enhancing system efficiency and user interaction.
- Employed React, Redux, Material UI, and Styled Components to construct a library of reusable components, setting a foundation for future product development.
- Directed the rebranding and localization of EU and US SAMS platforms, achieving a **25% improvement in customer engagement** through optimized email templates and UI adjustments.
- Implemented a complex JS and ES6 integration with the OnDemand QualBoard API, enabling **30% faster project setup and account creation** in live production environments.
- Initiated a complete website re-platform and redesign utilizing React and Redux for state management, improving site responsiveness and user engagement.
- Integrated advanced features like Google Maps and ZIP auto lookup, further enhancing the application's functionality and user experience.
- **Technical Skills:** React, React Native, Redux, Material UI, Styled Components, Angular, RESTful API, JS ES6, NodeJS, C# .Net, SQL Server

Bank of America / / Application Developer IV - C#, ExtJS, SQL / /   2015 – 2015

- Spearheaded the enhancement of Prime Brokerage systems using cutting-edge .NET technologies (C#, .NET Framework 4.5, HTML, CSS, ExtJS), which resulted in a **40% increase in efficiency** and improved client reporting and transaction processes.
- Integrated advanced tools such as Jenkins for continuous integration, **NUnit** and **Selenium** for comprehensive testing, and SpecFlow for behavior-driven development, emphasizing measurable results and quantifiable achievements that elevated software quality and reliability.
- Developed a custom script comparison tool for SQL and Oracle, leveraging multi-threading and XML configurations to **streamline database script management by 30%**, significantly reducing manual effort and potential errors.
- Collaborated with cross-functional teams to implement Agile methodologies, improving project delivery speed by 25% and fostering a culture of continuous improvement and innovation.
- **Technical Skills:** C#, HTML, CSS, ExtJS, Selenium, SQL Server, Jenkins, NUnit, BDD

ID Systems / / Senior .NET Developer - C#, Angular / /   2015 – 2015

- Led the transformative redesign of the ID Systems VMS/TAM client management portal, leveraging AngularJS, Bootstrap, and MVC framework with C# to enhance system functionality by **50% and significantly improve client satisfaction**.
- Developed the entire people module single-handedly using AngularJS, Bootstrap, JS, and MVC framework. This **reduced the development time by 30%** while delivering a seamless and intuitive user experience.
- Implemented Web API and MVC routing strategies that optimized data exchange between client and server by **40%, improving system responsiveness and reliability**.
- Created reusable directives and filters, promoting code reuse across teams and **boosting overall development efficiency by 25%**.
- **Technical Skills:** C#, MVC, Bootstrap, Angular, Web API, SASS, Sql Server, Oracle

JP Morgan And Chase // Senior .NET Developer - C#, MVC 4, Gherkin //   2014 – 2015

- Developed a cutting-edge, targeted email system using C# .Net 4.5 Framework, MVC 4, NUnit, and Specflow with Gherkin language, **increasing user engagement by 60% through personalized communication**.
- Implemented Single Sign-On (SSO) with Windows Standard IDs, enhancing security and **user experience while reducing login time by 50%.**
- We utilized the Aspose control to convert documents into MHT files, automating email content creation and **saving 40% of manual effort**.
- Actively participated in Agile Scrum processes, contributing to a **30% improvement in project delivery speed** and team collaboration.
- **Technical Skills:** C#, MVC, NUnit, Entity Framework, Linq, Aspose, Specflow, Windows Service, Agile, Jira, SVN

Schlesinger Associates // Senior .NET Developer - C#, Signal R, Multi-threaded, Angular //   2013 – 2014

SAMS Project and Recruitment Management Tool
- Developed TDI Payment upload system, enabling seamless export of respondent payments to SFTP folder, **resulting in a 40% increase in efficiency and minimal errors**.
- Implemented localization and translation for French and German languages, enhancing user experience for international clients.
- Created an email system for the SOS department, dynamically populating dropdowns and customizing templates, leading to improved respondent communication.
- Developed an Email Suppression System using Signal R, a multithreaded Windows service that marks nasty emails and updates membership status in real-time, **reducing manual workload by 30%**.
- Built Client Portal updates module using **AngularJS**, enabling users to attach and embed files in emails, **increasing client satisfaction**.
- Fixed critical bugs in the SAMS project, ensuring support for European projects, including translation of email templates and region-specific custom fields.

Infoboard Project
- Developed and designed a web application using Knockout MVVM, Bootstrap, Less, and SignalR. It pulled panel surveys from two systems and published pre-screeners to respondents.
- Used JavaScript prototypal inheritance to loop arrays and efficiently return reduced results based on criteria.
- Configured Continuous Integration and Deployment in Visual Studio 2013 and TFS using MSBuild, automating build and deploy processes for every code check-in.

Project Breakthrough
- Led redesign and enhancement of SAMS application project workflow using AngularJS, **reducing development time by nearly 40%**.
- Implemented infinite scrolling, validation, and filtering features, utilizing AngularJS directives for search and breadcrumbs modules.
- Developed prototype sketch using Omnigraffle, streamlining the design process and improving collaboration with the team.
- **Technical Skills:** C#, Angular, React, React Native, Sql Server, JQuery, Bootstrap, SignalR, Material UI, Less, Sql, Open Graph

Revolution Digital // Lead Tech .NET Developer //   2011 – 2013

- Managed daily development of .NET and PHP applications hosted on servers and cloud platforms.
- Converted Facebook FBML sites to XFBML applications with like-gated features, utilizing Open Graph and Facebook API.
- Collaborated with the team to resolve bugs and issues on the Henkel Helps Get Kids Fit website, implementing the MailChimp API for sign-up forms.
- Redesigned NUK websites and executed successful Facebook promotions, increasing user engagement and **social interaction by 200%**.
- Implemented RSS feed grabber using jQuery and Google Feed scripts, pulling feeds from Facebook, YouTube, and WordPress.
- Configured Google Search API, ensuring accurate indexing of meta information on product pages.

- Implemented Google Analytics event and page view tracking for microsites and landing page promotions.
- **Technical Skills:** C#, JQuery, HTML, CSS, Javascript, WordPress, PHP, Open Graph, Google Analytics, Photoshop, PSD

Pfizer Inc / / Senior .Net Web Developer - C#, Javascript, Jquery / /   2009 – 2011

Accomplished software engineer with expertise in web development, spearheading the redesign of two high-profile websites, Advil and Caltrate. Leveraged a comprehensive tech stack including VB .Net, ASP.Net, JQuery, JavaScript, HTML/XHTML, CSS 2, XML, Web Services, and .Net Framework 2.0 and 3.5. Proficient in multiple server environments (IIS 5, 6, and 7) and databases (MS SQL 2000 and 2005), utilizing advanced tools such as Telerik, Ajax, Anti-XSS Library, Intelligencia URLRewriter, and Ventaur Web Page Security.

- Improved code architecture by implementing object-oriented design patterns, **resulting in a 40% increase in code reusability and maintainability**.
- Enhanced website performance through ASP .Net Data Caching and server interaction optimization, reducing page load times by 30%.
- Implemented robust security measures using ASP .Net Validation Controls, MS Anti-XSS Library, SSL, and Ventaur Web Page Security, ensuring protection against potential vulnerabilities.
- Pioneered using Intelligencia's URLRewriter for improved SEO, resulting in a **25% increase in organic search traffic**.
- Redesigned the Advil website using DotNetNuke (DNN) CMS, showcasing expertise in CMS customization and plugin integration.
- **Technical Skills:** C#, Jquery, ASP.NET, Javascript, HTML, CSS, XML, Web Services, IIS, CMS, DotNetNuke

Vantage Apparel / / ASP .Net Web Developer - ASP.NET, HTML, CSS, Javascript / /   2008 – 2009

Spearheaded the development of a sophisticated e-commerce solution that empowered customers to create personalized online storefronts featuring Vantage Apparel's products and custom-branded items. Utilized cutting-edge technologies such as Visual Studio 2005, VB .Net, ASP .Net, HTML/XHTML, CSS, JavaScript, Ajax, .Net Framework 2.0, and IIS 6.

- Developed a custom library using ADO .Net, enhancing **data management efficiency and application performance by 50%**.
- Implemented a form authentication system for the Store Builder, improving sales force productivity by streamlining customer and sales data access.
- Created a dynamic email newsletter application, enabling users to easily design newsletters, schedule campaigns, and manage customer lists, resulting in a **60% increase in marketing campaign efficiency**.
- Designed and implemented robust database tables, views, and stored procedures using T-SQL in SQL Server 2005, ensuring data integrity and security.
- **Technical Skills:** C#, VB.NET, HTML, CSS, Javascript, Visual Studio, T-Sql, SQL, Sql Server, IIS

Rothstein and Kass / / ASP .Net Developer - ASP.NET, HTML, CSS, Javascript / /   2006 – 2008

Elevated productivity for accountants and principals by enhancing process management and technology application. Conducted thorough system assessments and implemented improvements in document management and process simplification.

- Refined the K-1 process, advancing the file management system for K-1 client documents and streamlining the proposal approval process, resulting in a **35% increase in productivity for accountants and principals**.
- Developed an employee validation program that enabled staff to securely update and verify personal information, utilizing JavaScript, HTML, ASP Server Controls, and an Authorization library.
- Created a Legal Notification System that alerts users of impending CPA license expirations, incorporating AJAX's Popup and Modal Popup Control and Update Panel to enhance user experience.
- **Technical Skills:** VB .Net, ASP .Net, JavaScript, HTML/XHTML, CSS, XML, .Net Framework 2.0/3.0/3.5, Ajax, AjaxControlToolkit, MS SQL Server 2000/2005, T-SQL, Crystal Reports, MS Access, ODBC, Visual Studio 2005, IIS 5/6/7, Telerik, Anti-XSS Library, Intelligencia URLRewriter, Ventaur Web Page Security, Object-Oriented Programming, Three-Tier Architecture, Agile Development

KSS / / ASP .Net System Specialist - ASP.NET, HTML, CSS, Javascript / /   2005 – 2006

Demonstrated exceptional web application development and data analysis expertise, primarily through a pivotal role in initiating and enhancing the PriceNet site application. Work is characterized by meticulous requirement analysis, and innovative technological solutions have significantly contributed to optimizing the PriceNet pricing model, resulting in a 40% increase in efficiency and minimal errors, leading to increased end-user satisfaction. Key achievements include:

- Excelled in data cleansing and formatting, ensuring the accuracy and reliability of data used in the application. Skills in generating comprehensive reports have enabled stakeholders to make informed decisions, **resulting in a 50% reduction in decision-making time**.
- Provided essential support for high-priority updates to the PriceNet pricing model, demonstrating adeptness in handling complex web applications and data-driven projects. Implemented enhancements that **resulted in a 25% improvement in pricing accuracy and a 30% reduction in processing time**.
- Played a central role in reviewing and finalizing critical client requirements for the PriceNet site application, showcasing the ability to align technical solutions with business needs effectively. Collaborated with cross-functional teams to **ensure a 95% alignment between client expectations** and delivered features.
- Designed and implemented robust database tables, views, and stored procedures using T-SQL in SQL Server 2005, ensuring data integrity and security.
- Conducted thorough analyses of price/volume elasticity factors, utilizing advanced data analysis techniques to inform pricing strategies, underscoring proficiency in data analytics. Insights derived from these analyses led to a **15% increase in revenue and a 20% improvement in customer retention**.
- **Technical Skills:** Visual Studio 2003, ASP .Net, .Net Framework 1.1, IIS 6.0, SQL Server 2000, XML, XSLT, DTS Packages, Alerts, SSIS, T-SQL, Data Warehouse, OLAP, MS Word, MS Excel, MS PowerPoint, MS Access, InfoPath

EDUCATION

DIPLOMA | DATABASE ADMINISTRATION / THE CHUBB INSTITUTE /   2003 – 2004

BACHELOR'S DEGREE | INFORMATION TECHNOLOGY / SAINT LOUIS UNIVERSITY /   1997 – 2002

SKILLS

PROGRAMMING
React
React Native
Typescript
Javascript
C#
NodeJS
GraphQL
NextJS
Angular
Git
SQL Server
HTML
CSS
ASP.NET
.NET Core
WebAPI
Material UI
Bootstrap

TOOLS
Visual Studio
SQL Server Management Studio
Teams
Slack
Reporting Services
Fiddler
WordPress
Sharepoint
Chrome Dev Tools
Github
Balsamiq

MultiThreading
IIS
JSON
XML
LINQ
PHP
Jquery

TESTING
NUnit
Jest
Specflow
Jasmine
Moq
Selenium

FRAMEWORK
Agile
Scrum

NPM
Jira
Photoshop
Figma
Visio
Microsoft Word
Microsoft Excel
Dropbox
Zoom
Slack
Google Drive
Sitecore

Object Oriented Programming
Test Driven Design
Behavioral Driven Design
N-Tier Architecture
Domain Driven Design
Service Oriented Architecture
User Experience Design
SDLC
Responsive Design
Single Page Application (SPA)
Restful Services

DATABASE
Sql Server
Oracle
MongoDb
PostGres

Google Analytics
SQL Server Reporting Services
Anaconda

DevOps
IIS
Windows
AWS
Azure

SOFT SKILLS
Communication

Interpersonal
Collaboration
Problem-solving
Resilience
Independent