

Jay P. Hayes

Next JS / React JS / ASP.NET Core Web API 2.1 / Visual Studio 2022 / SQL 2019

OVERVIEW

Senior Full Stack Developer: Next.js / React.js / Business Intelligence Developer / SQL Developer, using over 20+ years of development experience to implement solutions using current and new technologies, from desktop to mobile, the goal and the focus are to use innovation and technology to make the client's and users' tasks, jobs, and lives better. Marketing Next.JS as the toolset of choice. Next.js is built on top of React.js. Open to opportunities to use both toolsets for creating new applications and solutions.

QUALIFICATION SUMMARY

- 1: Full stack developer with an ability to turn ideas into workable applications from Database Design, API development, Front End Design, and security using current toolsets: Next.js, React.js, API Development (C#, ADO.NET), SQL Server Database Development, and Airtable.
- 2: Success working with major end-users to define needs and provide data-oriented solutions. Current solution development focuses on innovative, modern responsive design accessing data from a backend database using Power BI, and Web APIs using Microsoft Azure for restful backend service.
- 3: SwiftUI 4.0 is the latest version of the new toolset from Apple used to build the latest iPhone application. SwiftUI helps you build great-looking apps across all Apple platforms with the power of Swift — and surprisingly, little code.
 - Full Stack Development with Next.js, Tailwinds CSS, and API with Airtable
 - NEXT.js, React.js, Tailwind application development APIs with Airtable.
 - NEXT.js, React.js, Tailwind application development using Enterprise APIs.
 - Power BI, SQL Server, Dax
 - SQL Server database Development: Stored Procedures, Views, SSRS

Technical Skills – Production

Next.js, Tailwind.css, HTML5, CSS3
React.js, Tailwind.css, HTML5, CSS3
Power BI Dashboard development, data integration and visualization
ASP.NET core / C# / .NET 6.0
SQL Server 2019/ Database Programming, Views, User Defined Functions (UDF), Stored Procedures
Visual Studio Community 2022, SQL Server Management Studio (SSMS) v18.10
Database Administration T-SQL, Profiler, Indexing, Performance tuning
Windows Azure (SQL Database / Web API)

Technical Skills – In Progress

Swift UI

CURRENT PROJECTS - Community Lot Lists.

Vision Tech Now - Full Stack Developer

Pelham, AL (Remote) 07/2022 - Present

[Next.js / React.js / Power BI / Tailwinds / SQL Server / API](#)

Opportunity: Community Lot List is a website that organizes communities by location, display assigned school districts, addresses, cities, and states. Also show listing of new sector development for the assigned community. We had the idea to present local communities with their designated schools, cities, states, and counties after seeing a scanned PDF document of new sector home development in a neighborhood.

Major Accomplishment (Next.js / React.js / Tailwinds / API): We saw the chance to present local communities in the area along with their designated schools, city, state, and county, starting with a scanned PDF document of new dwellings in a new sector of a community. Created a relational dataset and API to house the data and image assets using Airtable API, created an Next.js application to read in the API and present the data to users. Implemented security level using Firebase to allow the user to maintain a profile for the application and save their favorite communities. Using Next.js gave us the option to use getStaticProps and the Image component for possible better image optimization and web/mobile speed.

Scheduled Features (Next.js / React.js / Tailwinds / API / Mobile / Power BI): Once the data entry team reach a good point, the goal is to create a Power BI shared dashboard Report to show the community stats (Schools to Communities, City to Communities) and Lot listing stats (Lot listing by plans, agents, bedrooms, bath, etc.).

Note: as the architect, we implemented the process: Let the Data Tell the Story.

FEATURE PROJECTS

Rez Intel Dashboard Visualization

ADTRAV

Birmingham, AL

08/2019 – 12/2021

[Angular](#) / [TypeScript](#) / [Qlik Sense](#) / [HTML5](#) / [CSS3](#) / [QDT Components](#)

RezIntel Enterprise™ helps organizations optimize performance by aggregating, consolidating, and visualizing global travel and expense data from disparate sources, streamlining processes, optimizing spend across broad categories, and facilitating strategic insights.

Opportunity: We took ownership of the RezIntel application during the developer team's transition. Not knowing the current state of the application, we were constantly implementing missing features that were expected to be completed. However, having a good and flexible team, we were able to accomplish the tasks and implement the missing features successfully in production.

The development efforts for this application fall into 3 areas

- [Front End design and development](#) using Angular, HTML5, CSS3 and Foundation for a standard 12 grid layout.
- [Qlik Visualization Implementations](#) using QDT components and Qlik capability APIs
- [i18 Language Translations](#) for English, Spanish, and Japanese

Major Accomplishment: Over the course of the last 2 years, we have created and implemented several dashboard visualizations based on mockups from the customers' requests or the graphic designers Adobe XD mockups. Each dashboard has i18 translations for English, Spanish and Japanese. Also, created new KPI components used on Air / Hotel Booking and & Air / Hotel Policy.

Dashboards

- My Travel** Front End Design i18 Translations Qlik Implementations Production
[Angular](#) / [TypeScript](#) / [Qlik Sense](#) / [HTML5](#) / [CSS3](#) / [QDT Components](#)
Major Accomplishment: New Dashboard Visualizations
Double sided KPI cards with responsive Design with tab implementation.
- My Expense** Front End Design i18 Translations Qlik Implementations Production
[Angular](#) / [TypeScript](#) / [Qlik Sense](#) / [HTML5](#) / [CSS3](#) / [QDT Components](#)
Major Accomplishment: New Dashboard Visualizations
Double sided KPI cards with responsive Design with tab implementation.
- Approvals (2 and 3)** Front End Design i18 Translations Qlik Implementations Production
[Angular](#) / [TypeScript](#) / [Qlik Sense](#) / [HTML5](#) / [CSS3](#) / [QDT Components](#)
Major Accomplishment: New Dashboard Visualizations
Created 3 iteration of the Approval dashboards based on business needs and changes. Implemented custom Dashboard Tip popup with translations
- Rail Booking** Front End Design i18 Translations Qlik Implementations
[Angular](#) / [TypeScript](#) / [Qlik Sense](#) / [HTML5](#) / [CSS3](#) / [QDT Components](#)
Major Accomplishment: New Dashboard Visualizations
Created dashboard based on business needs and changes. Implemented custom Dashboard Tip popup with translations. (No in production)
- Air Booking** Front End Design i18 Translations Qlik Implementations Production
[Angular](#) / [TypeScript](#) / [Qlik Sense](#) / [HTML5](#) / [CSS3](#) / [QDT Components](#)
Major Accomplishment: New Dashboard Visualizations
Double sided KPI cards with responsive Design with tab implementation. Implemented new front end design to show quick charts.
- Air Policy** Front End Design i18 Translations Qlik Implementations Production
[Angular](#) / [TypeScript](#) / [Qlik Sense](#) / [HTML5](#) / [CSS3](#) / [QDT Components](#)
Major Accomplishment: New Dashboard Visualizations
Create new chart layouts for Policy compliance.
- Hotel Booking** Front End Design i18 Translations Qlik Implementations Production
[Angular](#) / [TypeScript](#) / [Qlik Sense](#) / [HTML5](#) / [CSS3](#) / [QDT Components](#)
Major Accomplishment: New Dashboard Visualizations
Create new chart layouts for Policy compliance.

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| 8. | Hotel Policy
<i>Angular / TypeScript / Qlik Sense / HTML5 / CSS3 / QDT Components</i>
Major Accomplishment: New Dashboard Visualizations
Double sided KPI cards with responsive Design with tab implementation. Implemented new front end design to show quick charts. | Front End Design | i18 Translations | Qlik Implementations | Production |
| 9. | CO2 Emissions
<i>Angular / TypeScript / Qlik Sense / HTML5 / CSS3 / QDT Components</i>
Major Accomplishment: New Dashboard Visualizations | Front End Design | i18 Translations | Qlik Implementations | Production |
| 10. | Rez Fan
<i>Angular / TypeScript / Qlik Sense / HTML5 / CSS3 / QDT Components</i>
Major Accomplishment: New Dashboard Visualizations | Front End Design | i18 Translations | Qlik Implementations | Production |
| 11. | Employee Meals
<i>Angular / TypeScript / Qlik Sense / HTML5 / CSS3 / QDT Components</i>
Major Accomplishment: New Dashboard Visualizations | Front End Design | i18 Translations | Qlik Implementations | Production |
| 12. | HCP Meals
<i>Angular / TypeScript / Qlik Sense / HTML5 / CSS3 / QDT Components</i>
Major Accomplishment: New Dashboard Visualizations | Front End Design | i18 Translations | Qlik Implementations | Production |
| 13. | Personal Expense
<i>Angular / TypeScript / Qlik Sense / HTML5 / CSS3 / QDT Components</i>
Major Accomplishment: New Dashboard Visualizations | Front End Design | i18 Translations | Qlik Implementations | Production |
| 14. | Source Data Audit
<i>Angular / TypeScript / Qlik Sense / HTML5 / CSS3 / QDT Components</i>
Major Accomplishment: New Dashboard Visualizations | Front End Design | i18 Translations | Qlik Implementations | Production |

Prototype Application: B.A.T.

ADTRAV: Back-office Administration Tool

Development

[React.js / Tailwinds / API C# / .NET Core / SQL Server](#)

Opportunity: In our production tool (Rez-Intel), the dashboards user assignments can be issued by the admin screen in the application. However, to initially assigned new dashboards to accounts and users required a manual SQL script to setup and maintain. Created a local tool to maintain and assign Dashboards and user's access.

Major Accomplishment: Front End (React.js / Tailwinds / SQL): Using React.js and Tailwinds, created design and coded the application to assign the users and new dashboards in development. To assign and maintain user accounts and dashboards required a lot of repetitive SQL scripts. Using the front end, allow the developers to run the SQL scripts using the front end and stored procedures.

Major Accomplishment: Database (API C# / .NET Core / SQL): The challenge / opportunity here is the database structure was currently in place, but needed a way to search, sort and implement the changes. Most of the manual SQL scripts required manual values, which lead to inconsistent values and label. Using the back-office tool, we were able to implement a consistent change to the Rez-Intel dashboard assignments

Prototype Application: Rez-Intel 3.0

Rez-Intel 3.0

Prototype

[React.js / Tailwinds / API / Enigma.js / Nebula.js](#)

Opportunity: The center feature of the Rez-Intel application is the data visualization presented by Qlik Sense chart objects. Qlik is one of the best data visualization tools along with Power BI, Tableau and Sisense. The challenge here is that our Qlik Sense version was extremely outdated. Based on changes implemented by contemporary browsers, this started causing issues with our outdated Qlik implementation. Because of the nature of the data, the current information is sensitive, and we did not want to place any data on a public site. To that end, we created a separate API using mocked data.

Major Accomplishment: Front End Application (React.js / Tailwinds / SQL): Using React.js and Tailwinds, to created design and implement a functional, working prototype of one of the existing dashboards.

Major Accomplishment: Qlik Sense Dashboards (Qlik Sense / Data Design / API): We have 2 datasets we used in our sample Rez-Intel 3.0 application CO2 Emissions and BHM Flight Arrivals and Departure data. Overall, implemented the dataset design, setup data in an API, create a Qlik Data load, setup the Qlik Sense SaaS and created all the Qlik Chart used in the application.

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Work History

Vision Tech Now - Full Stack Developer Next.js / React.js / Power BI / Tailwinds / SQL Server / API	Pelham, AL (Remote)	07/2022 – Present
ADTRAV (Sr. Data Visualization Engineer) Next.js / React.js / Qlik Sense / SQL Server / HTML5 / CSS3 / Tailwinds CSS / ASP.NET Web API/ SQL / C# / Qlik Enigma.js, Nebula.js	Birmingham, AL	08/2020 – 07/2022
ADTRAV (Business Intelligence Developer) Angular 7 / Qlik Sense / SQL Server	Birmingham, AL	08/2019 - 07/2022
Southern Company (Alabama Power) Power BI / Oracle 11g / ASP.NET / C#	Birmingham, AL	01/2019 – 06/2019
Southern Company (Engineering and Construction Svc) Power BI / SQL Server Reporting Services (SSRS)/Angular 7 / ASP.NET Web API/ SQL / C#	Birmingham, AL	06/2017 – 01/2019
Southern Nuclear SQL Server Reporting Services (SSRS)/Angular 4, 1 / ASP.NET Web API/ SQL / C#	Birmingham, AL	06/2014 - 06/2017
Ingenuity Business Solutions Kendo Mobile Web / HTML 5 / Bootstrap/ jQuery	Birmingham, AL	12/2014 - 04/2014
INTERMARK GROUP C# / ASP.NET/ MVC/ SQL 2005 / SSRS	Birmingham, AL	05/2013 - 10/2014
REGIONS BANK – Wealth Management / Trust C# / ASP.NET 4.0 / SQL 2008 / SSIS / SSRS / Visual Studio 2012 / SSMS 2012 / DevExpress (ASP.NET / Charting)	Birmingham, AL	11/2011 - 05/2013
BBVA Compass – Birmingham, AL C# / ASP.NET 4.0, 3.5 / SQL 2008 r2, 2005 DATABASE / SSIS / SSRS	Birmingham, AL	12/2008 – 11/2011
Colonial Properties Trust VB.NET / ASP.NET 3.5 / SQL 2005 DATABASE / SSIS / SSRS	Birmingham, AL	02/2008 - 12/2008
DAXKO System Support engineer.	Birmingham, AL	10/2007 - 02/2008
EBSCO Industries SQL 2005 DATABASE PROGRAMMER	Birmingham, AL	12/2006 - 10/2007
NCP Solutions DATABASE DEVELOPER / VB.NET - ASP.NET DEVELOPER	Birmingham, AL	06/2004 - 12/2006
EBSCO Industries DATABASE DEVELOPER / VB.NET - ASP.NET DEVELOPER	Birmingham, AL	09/2003 - 06/2004
Momentum Business Solutions DATABASE DEVELOPER / VB.NET - ASP.NET DEVELOPER	Birmingham, AL	06/2002 - 09/2003
Molton, Allen & Williams (MAW) Database Developer: Visual Basic 6.0 /Active Server Pages / SQL 7.0 – 2000 / Crystal Reports 8.5 / HTML	Birmingham, AL	08/1999 - 06/2002
Bellsouth Billing Inc. Visual Basic 6.0 / Web Development / SQL 6.5-7.0 / Crystal Reports / HTML	Birmingham, AL	01/1996 - 07/1999
USMC – United States Marine Corp Cobol programmer / Data Security /		01/1984 - 01/1992