

DEREK R. DRILL

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PROFESSIONAL EXPERIENCE

IMPLAN - Huntersville, NC

February 2021 - Present

Front End/BI Developer

Works on the development team responsible for building, enhancing and maintaining the IMPLAN App, a web application that reports economic data and impacts across regions. There are two primary roles to this position. The first is to develop and maintain data visualizations and dashboards that are embedded throughout the app. The business intelligence tool used to develop these is Looker, a Google BI product. To be successful in using Looker, one must be versed in SQL, as well as LookML, Looker's markup language for building dynamic dashboards. The second responsibility is to work with the front end team to assist with code refactors, bug fixes and new features. This is a React application, so it is imperative to be versed in building dynamic JSX components. Material UI and Styled Components are also heavily utilized. Overall, this is a "hybrid" developer role, with the following technologies/skills utilized:

- Looker, specifically, designing visualizations and dashboards within the LookML framework
- The ability to write/interpret complex SQL (Using Redshift as a data warehouse)
- React JS, with heavy utilization of the following: JSX, CSS, React Maps, Material UI and Styled Components

SOFTDOCS, INC. - Columbia, SC

May 2019 - February 2021

Business Solutions Consultant

Works with educational institutions to assist them in analyzing the use-cases of their paper-processes, to then be responsible for building them web-forms to fit their needs. In this position, it is imperative to be skilled at collaborating with people, interpreting their custom use-cases/needs, while also being technically savvy and capable of delivering solutions to fulfill those needs. Clients could have any amount of paper processes they would like transitioned into web-forms; building these web solutions involves:

- Utilizing HTML, CSS, Bootstrap, JavaScript, jQuery, jQuery-UI and Knockout.js
- Writing SQL to a client's ERP database, to integrate data into the form(s), enhancing the form's end-use and data-validation
- Building and deploying reusable solutions to the company's CDN (Knockout.js custom-bindings) to continuously improve the library of bindings available to be built into the web-forms

BAE SYSTEMS - California, MD

July 2017 - April 2019

Web Application Developer II

Designs, enhances, and troubleshoots the main ERP system utilized for tracking and reporting the data of parts that are shipped in, shipped out and moved about the facilities. Other smaller-scale applications may be required for development, based on the use-cases of different departments. The technologies and skill sets utilized in this position include:

- Utilizing web-technologies such as ASP.Net, HTML, CSS, JavaScript, jQuery, Bootstrap
- Designing the SQL Server data tables used for the back end, while utilizing stored procedures, server-side logic, and client-side logic to manipulate that data (SQL, Node.js and VB.Net)
- Keeping applications compliant with current regulations, and developing new applications to fulfill new needs

EDUCATION

Bachelor of Science in Information Systems and Decision Sciences

Salisbury University – Salisbury, MD – May 2016

GPA: 3.2

TECHNICAL SKILLS

- 4 years Web Development Technologies, such as, HTML, CSS, JavaScript
- 4 years database experience; primarily in Microsoft SQL Server, with some experience in Oracle and Redshift environments
- 4 years developing in Visual Studio Code
- 2 years experience using Git for project source control (Bitbucket and GitHub)
- 1 year experience with Node.js, React JS and NPM
- Building responsive, data-driven web-applications, web-forms and reporting dashboards
- Gathering and interpreting business requirements
- Communicating technical requirements in a simple manner

NOTABLE ACHIEVEMENTS/PROJECTS

● **BAE SYSTEMS**

- Revamping the main inventory ERP application allowing for more user-friendly experiences; utilizing the data to its full-capacity allowed for new reporting options and full information transparency among several departments (*VB.Net, C#, SQL Server, SSRS, ASP.Net, HTML, CSS, jQuery, jQuery-UI, AJAX*)
- Developing a financial application, that parses uploaded spreadsheets, to accumulate key financial data, and stores it in a SQL Server database. Reports are returned to the end-user that organize that key data for the Finance department in an efficient manner (*Node.js, Electron JS, HTML, CSS, JavaScript, jQuery, Bootstrap, SQL Server*)

● **SOFTDOCS, INC**

- Contributing towards the development of a CDN library of reusable JavaScript solutions. These solutions simplify the development of the web-forms and processes being built for clients. By building these Knockout.js custom-bindings, the amount of JavaScript necessary to build high-level solutions into forms substantially decreases, while the time spent developing a form also decreases. Simple HTML data-binds can be configured to create advanced behaviors in their web-forms such as autocompletes, field-masking, data-validation, etc. (*Knockout.js, JavaScript, jQuery, jQuery-UI, Bootstrap*)
- Developing an advanced custom web-form solution for a Georgia K12 school district's hiring process. The process involves applicants filling out the 'Application of Employment' web-form, then data would then be reported back to Principals of these schools, allowing them to search and review the data of all applicants. Principals can then complete a 'New Hire Recommendation' form, which also integrates with the real data from the applications. This action then initiates the new-hire/on-boarding process, notifying the new employee of the other on-boarding web-forms that need to be completed. This application's data is stored on SQL Server, where a relational data-structure is designed to maintain the data being gathered. Stored procedures are utilized to handle the manipulation of data on the server, and client-side logic is utilized to integrate data into the web-forms and reports involved in this process. (*HTML, CSS, JavaScript, jQuery, jQuery-UI, Bootstrap, Knockout.js, SQL Server*)