

Alexander Measday

Software Engineer

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Professional Summary

Driven web developer with 9 years of experience working on enterprise applications. Expertise with design and implementation of intuitive user experiences and robust back-end systems. Interested in full-stack web application development and cloud-based infrastructure design. Committed and analytical, able to quickly thrive within new technology and situations. Notable technology experience includes HTML, CSS, JS, ReactJS, VueJS, AngularJS, NodeJS, Java, AWS, MongoDB, and Microsoft SQL Server.

Certifications

AWS Solutions Architect / Associate

Validation code 41JSMCB1KM1QQXC2 / DECEMBER 2017

Capable of identifying solutions to requirements through architectural design principles. Knowledge and understanding of creating fault-tolerant, high-availability systems.

Work History

Ascella Technologies / Full-stack Developer

OCT 2019 - PRESENT, Herndon, VA (Remote)

DIRECTOR

JAN 2021 - PRESENT

- In addition to my duties as a senior consultant, I have taken on additional responsibilities pertaining to the continued growth of Ascella Technologies at the corporate level
- Serves as the advisor and primary consultant for the continued development of internal applications, and oversees a group of back office developers who maintain these applications
- Conducts the technical portion of our recruitment / interview process in order to identify the best candidates for the continued development of our company's contractual obligations to our customers
- Regularly contributes to proposal work for the company, including the design and production of application architectural diagrams and technical writing

SENIOR CONSULTANT / ReactJS, ExpressJS, NodeJS, Microsoft SQL Server

OCT 2019 - JAN 2021

- Serves as the primary full-stack developer for the Budget Allocation and Reporting Tool (BART), a workflow-based form submission and budget management application created with ReactJS and NodeJS
- Led the complete refactor and modernization of BART from a SharePoint-hosted system into an extensible and performant microservice-based full-stack application utilizing NodeJS and ExpressJS
- Designed and implemented the Congressional Budget and Justification document generation and collaboration tool within ReactJS and NodeJS, which allows for the collation of multiple distinct documents into a single consolidated file
- Configured BART's full-stack implementation of an extensible single sign-on solution for end users using NodeJS, establishing communication with a central ActiveDirectory server in order to provide users with seamless and secure access to the application
- Designed and implemented BART's accessibility utilities and component styling, which enable the BART software to be fully Section 508 compliant, as per standards established by the Federal Government's IT Accessibility initiative. This enables the BART software to be used by a wider variety of users with various unique needs, including those who require external screen reader software.
- Developed a user security configuration workflow and management tool within BART, which allows for end users to customize individual user authorization to various aspects of the application
- Developed, tested, and implemented an allocation calculator within BART using NodeJS/ReactJS to assist OFM users with the rollout of funding across multiple Continuing Resolutions
- Designed, developed, and implemented the widget dashboard used within BART, featuring SEC-focused widgets like a data call widget, which integrates with BART data in order to provide an at-a-glance view of the status of Operating Plan forms
- Developed BART's transfer of funds functionality, which provides OFM users with the ability to quickly and easily manage transfer requests directly within the application

- Implemented the report quick links functionality in BART, providing OFM users with easy-to-find links to customized reports built within PowerBI
- Designed and implemented a variety of foundational reusable components used throughout all forms in BART, including a “workflow status” panel which provides easy-to-read information about a given workflow form, as well as various data summary tables that can be used by OFM users to accurately assess allocation of funds within a form
- Implemented the manual data entry validation patterns and tools used throughout BART, which ensures that information entered by a user conforms to application-specific standards necessary for proper storage and rendering of the data

NewWave / Full-stack Developer

FEB 2019 - OCT 2019, Elkridge, MD

- Served as the primary full-stack developer for a data aggregation and warehousing application
- Led the Dockerization effort of various microservices and UI codebases across multiple projects
- Contributed to a library of reusable React components that function as wrappers for Material-UI components
- Worked as a full-stack developer within the MERN stack for the prototype of a “drag-and-drop” application that scaffolds a full, end-to-end application and associated codebase
- Wrote various documentation for multiple projects, including an onboarding guide for new developers and tutorial / “cheat sheet” for a standardized git branching strategy

Freedom Consulting Group / Software Engineer

JUL 2016 - FEB 2019, Laurel, MD

LEAD FRONT-END DEVELOPER / VueJS, ExpressJS, NodeJS, MongoDB

JAN 2018 - FEB 2019, Project 2

- Led front-end team and worked as primary front-end developer for a component-based web application
- Delegated front-end tasking and tracked implementation progress for client-side codebase of application
- Communicated regularly with customer base, including occasional leading of meetings and technical demonstrations
- Designed and implemented application-wide “user mirroring” functionality
- Developed rapid prototype of first full release of application

FULL-STACK DEVELOPER / AngularJS, ExpressJS, NodeJS, MongoDB

JUL 2016 - MAR 2018, Project 1

- Worked as a full-stack developer for an MVC-based web application
- Modernized a JSF-enabled legacy application using the MEAN stack
- Orchestrated and developed a significant portion of a reusable auditing framework, which was used by multiple projects
- Implemented server-side user authentication and authorization measures
- Wrote extensive documentation detailing how to implement a unit testing framework for the MEAN stack
- Developed lightweight RESTful interfaces, which interact with a number of external resources

Freedom Consulting Group / Software Intern

JAN 2015 - JUL 2016, Columbia, MD

- Designed a virtual machine network infrastructure that served as the system of master & slave nodes for a Hadoop-backed data lake
- Wrote a web scraper in Python to populate the data for the data lake
- Developed a Java application to store geolocation-enabled Tweets to a MongoDB database

Education

University of Maryland, College Park / College Park, MD

B.S. Computer Science / JUL 2016