Ralph Alex Woiwode

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Creative Software Developer/Engineer with 6+ years of experience designing, developing and testing numerous web-based applications integrating a range of technologies. Savvy in front-end development with proven ability to utilize full-stack skill to develop interactive and user-centric web designs to scale. Brings familiarity with Agile development methodologies, experience with software design and development in a test-driven environment, and knowledge of coding languages and frameworks/systems.

Professional Experience

General Motors | Austin, TX
Data Engineer | January 2021 - April 2023
- Successfully revitalized the Warranty Process Supplier Algorithm app through a complete rewrite, optimizing web functionality and presenting useful data.
- Leveraged k8s, Docker, and Spark to automate supplier cost forecasting, resulting in a 30% increase in efficiency.
- Applied queries to work with new table definitions and fine-tuned Spark configurations to ensure all processes and resources were optimized and functioned smoothly.
- Led key upgrades, including transitioning the Warranty Process Supplier Algorithm app from Legacy architecture (Hadoop/YARN) to the NextGen architecture built on Kubernetes/ESS.

General Motors | Austin, TX
Software Developer, Front-end | August 2019 - December 2020
- Successfully rewrote the UI of eCommerce's B2B application, transitioning from Java to React, resulting in a 30% increase in user involvement.
- Conducted in-depth source code analysis to identify programming errors, bugs, and stylistic issues by integrating Linter into project files, ensuring a more consistent code formatting.
- Introduced the React Reducer to the team and conducted unit testing of React Components using Jest.
- Managed website development projects from initial design through completion, optimizing cross-browser and multi-platform compatibility.

University of Texas at El Paso | El Paso, TX
Front-End Developer | June 2016 - July 2019
- Utilized Agile methodologies to develop dynamic web-based data integration projects for the Office of Research of Sponsored Projects, ensuring high-quality development and consistent timely delivery.
- Engineered the Limited Submissions app, simplifying the application process for research funding opportunities.
- Revolutionized the funding application process by designing and developing a proposal improvement program app, allowing Deans to locate upcoming research funding opportunities.
- Bootstrapped multiple department websites following a new template, maintained and modified department websites based on faculty requests, and managed a database for accurate queries.
- Employed Atlassian's Jira application for issue and task tracking in development projects, resulting in a 50% increase in efficiency.

Core Competencies

Agile methodologies, Algorithm optimization, Application architecture, Code analysis, Critical thinking, Data integration, Database management, Debugging, Front-End Development, Game Design & Development, Issue and task tracking, Problem-solving, Project management, Responsive Web Design, Scrum, SDLC, TDD, UI/UX design and development, Web development

Technical Skills

AWS Services, AWS Billing and Cost Management, AWS Well-Architected Framework, Bootstrap, Cloud concepts, Concolic Execution, CSS, Docker, Figma, Fuzzing, Git, GitHub, GraphQL, Hadoop, HTML, Java, JavaScript, Jest, JSON, k8s, Linux, macOS, PHP, Plotly, Python, React, ReactNative, Ruby, SQL, Spark, Svelte, Testing, TypeScript, TFS, Web development

Education/Certifications

AWS Certified Cloud Practitioner, Amazon Web Services, April 2023

Master of Science in Software Engineering, University of Texas at El Paso, El Paso, TX, 2018

Bachelors in Computer Science, University of Texas at El Paso, El Paso, TX, 2016