Daniel Rendon

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SUMMARY

Highly adaptable Software Engineer with a proven track record at NASA, specializing in leading complex software modernizations, cloud-native solutions, and full-stack development. Excels at rapid learning and delivering impactful results, exemplified by the independent migration of data.nasa.gov. Seeking a challenging software engineering role to drive innovation and efficiency.

SKILLS

- **Languages, Frameworks & API Development:** JavaScript (Node.js, Vue.js), Python (Flask, Apache Airflow), HTML, CSS, API Design & Development, REST APIs, Systems Integration
- **Cloud & DevOps:** AWS (S3, EC2, etc.), Docker, Azure DevOps (CI/CD Pipelines), Git, GitHub
- **Data Technologies:** Data Migration, Data Transformation (DCAT-US 1.1, Apache Atlas), CKAN, Microsoft Purview
- **Methodologies & Practices:** Agile/Scrum, Kanban, Software Development Life Cycle (SDLC), Containerization, Troubleshooting, Scripting (PowerShell, Bash)
- **Core Competencies:** Expert Problem-Solving, Rapid Learning & Adaptation, Cross-Functional Collaboration, Project Delivery, Technical Leadership & Mentoring

EXPERIENCE

Senior Systems Engineer, MORI Associates, NASA, December 2024-Current

- Led the software engineering and migration of NASA's data.nasa.gov to a containerized Docker cloud platform, achieving zero downtime and full data integrity.
- Independently re-platformed data.nasa.gov from Socrata to an open-source CKAN stack (Python), eliminating licensing fees, mastering new technologies rapidly.
- Engineered an S3-based API for ~1 TB of static assets via presigned URLs, improving reliability and reducing costs.
- Integrated data.nasa.gov with NASA's SSO, automated DCAT-US 1.1 data harvesting, and designed NASA-branded CKAN UI.
- Built and maintained Apache Airflow data ingestion/transformation workflows and managed Microsoft Purview configurations and metadata mapping.

Senior Systems Engineer, SAIC, NASA, March 2023-December 2024

- Pioneered data.nasa.gov modernization with a CKAN proof-of-concept, demonstrating performance gains and cost savings.
- Migrated and containerized code.nasa.gov, refactoring with Python for improved performance and maintainability.
- Developed an interactive 3D site for Commercial Lunar Payload Services (Google model-viewer) and a Node.js/Vue.js app for CHAPEA Mission 2, enhancing user experience and productivity.
- Created an automated release tracking system (PowerShell/Bash) and provided technical guidance on software development best practices.

Senior Systems Engineer, MORI Associates, NASA, October 2022-March 2023

- Led the rapid containerization and full-stack rewrite of the Roundup Reads application using Node.js, delivering the project on schedule and improving performance.
- Upgraded the Texas in Space application from Vue 2 to Vue 3, enhancing performance and maintainability, and managed the NASA-owned GitHub instance, improving build times.

- Improved data accuracy for data.nasa.gov by developing cleanup scripts using the Socrata API, reducing data transfer errors from thousands to under 100.

Systems Engineer, Jacobs Technology, NASA, February 2022-October 2022
- Migrated the WinMD application to a modern Lucee/containerized hosting solution and developed a secure mailing list subscription API for ARES.
- Consolidated internal application services by creating an Active Directory API and enabled hosting of newer application types on IIS servers by implementing HttpPlatformHandler.

Systems Engineer, MORI Associates, NASA, October 2018-February 2022
- Streamlined deployments by creating CI/CD pipelines in Azure DevOps for all custom applications and developed a mass upload feature for the SFA Database, significantly boosting efficiency.
- Enhanced development speed and security by building new static sites with Vue.js/Node.js and containerizing legacy .NET, ColdFusion, and static site applications using Docker.

Web Developer, Sage-IQ, October 2015-October 2018
- Developed front-end solutions for enterprise and startup applications (e.g., Dun and Bradstreet's Data Exchange, Airbnb-style platform) using AngularJS, HTML, CSS, Python (Django, Beautiful Soup), and Jasmine in Agile environments.

ACCOMPLISHMENTS

- **Constellation Excellence Award** Recognized for stabilizing the Open Innovation Program websites, bringing them into compliance with IT security standards, and implementing best practices for five websites.
- **Space Flight Awareness Team Award** Honored for developing a virtual badge system that streamlined the awards process, significantly reducing manual input and saving time and resources for the Space Flight Awareness program.
- **Galaxy Excellence Award** Awarded for innovation and excellence that exceeded expectations, helping NASA reach new heights with their web presence.

EDUCATION

Web Development Immersive Certificate of Completion
General Assembly, Austin TX

Highschool Diploma
William B. Travis Highschool, Austin, TX