

# 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