Joe Paolicelli
FULL STACK DEVELOPER

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TECHNICAL SKILLS

TypeScript/JavaScript, including **Node.js**

Python

Vue.js and **Nuxt**

HTML, **CSS**, **SCSS/Sass**, and **Tailwind**

PostgreSQL and **MySQL**

Elasticsearch and **MongoDB**

Docker and **Docker Compose**

CI/CD with **GitHub Actions** and **Jenkins**

Testing with **Mocha** and **WebdriverIO**

Ubuntu, **Debian**, and **Red Hat** Linux

Semantic Web: **RDF**, **OWL**, and **SPARQL**

AWS including **EC2**, **ECS**, and **Lambda**

Experience with many other technologies, and always ready to learn something new.

EXPERIENCE

Software Systems Engineer, **NASA Jet Propulsion Laboratory**   2017 – 2024

*Mars 2020 **Perseverance** Rover Mission*
- As the lead of a small team, was responsible for the development, testing, and release of several applications used across daily mission operations.
  - Triaged feature requests and bug reports from dozens of stakeholders.
  - Presented release documentation and testing reports to project leadership.
- Built full stack Vue.js applications to meet the unique needs of the mission.
- Developed services to integrate dozens of applications from multiple teams into a cohesive platform.
- Deployed to, configured, and secured scalable cloud infrastructure.

*Mars Science Laboratory **Curiosity** Rover Mission*
- Designed and implemented systems to increase mission automation.
- Created APIs and dashboards to collect and visualize alerts and data.
- Managed data processing queues and pipelines handling incoming rover data.
- Provided on-console and on-call support for rover operations.

***SunRISE** CubeSat Mission*
- Created custom UIs for sending commands and tracking spacecraft status.
- Built a robust, scalable telemetry pipeline to support multiple spacecraft.

EDUCATION

School of Engineering and Applied Science   2013 – 2017
The George Washington University, Washington, D.C.
Bachelor of Science, Computer Science
Technical Tracks: **Artificial Intelligence**, **Computer Security**