

Joe Paolicelli

FULL STACK DEVELOPER

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TECHNICAL SKILLS

TypeScript/JavaScript, including **Node.js** CI/CD with **Git**Hub Actions and **Jenkins**
Python Testing with **Mocha** and **WebdriverIO**
Vue, React, Nuxt, and **Next.js** **Ubuntu**, **Debian**, and **Red Hat** Linux
HTML, CSS, SCSS/Sass, and **Tailwind** Semantic Web: **RDF**, **OWL**, and **SPARQL**
PostgreSQL, MySQL, and **Elasticsearch** **AWS** including **EC2**, **ECS**, and **Lambda**

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

EXPERIENCE

Forward Deployed Engineer, **Vannevar Labs** Aug 2025 – Oct 2025*

- Designed and prototyped applications and workflows involving AI agents, web infrastructure, and geospatial data.
- *Position was eliminated due to company-wide 20% staff reduction less than three months after starting.*

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.
- Built full stack Vue.js applications to meet the unique needs of the mission.
- Developed services to integrate dozens of applications 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.
- 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