Matthew Sandoval
Senior Software Engineer

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EXPERIENCE

Senior Software Engineer, Red Hat Inc.

October 2024 - Present

- Improve and maintain Receptor, a mesh network used by Ansible Controller to communicate between nodes for remote execution.
  - Resolved production Kubernetes escalations including race conditions, EOF handling, IPv6 connectivity, and memory leaks.
  - Improved observability by adding Grafana Pyroscope profiling, qlog tracing, and consistent debug IDs.
  - Increased test coverage and refactored code using polymorphism to make unit testing easier.
  - Helped ship the AAP 2.6 release with bug fixes across Receptor, UI, and Controller.
- Work directly with support and customers on escalations and help improve how the team handles them.
- Built tooling and prototypes to improve team productivity, including an MCP server and AI chatbot for Ansible (demoed at the org-wide Ansible call), auto-rebuilding dev tooling in the internal development tool, and AI-assisted test generation and PR reviews.
- Interview engineering candidates and mentor new team members through onboarding and pair programming.

Software Engineer, Red Hat Inc.

April 2022 - October 2024

- Created a collection that automates industrial controllers using Ansible, a first in the industry. Article: How to automate devices using the Ansible CIP collection
- Created a collection that automates the image building process of RPM based OSTree operating systems. Article: Ansible Validated Content: Introduction to infra.osbuild Collection

Associate Software Engineer, Red Hat Inc.

May 2021 - April 2022

- Built the UI for Edge Management, a cloud based RHEL for Edge management product. Article: Managing Red Hat Enterprise Linux devices at the edge
  - Designed and managed feature epics architecture, implementation and testing
  - Used React and PatternFLy to build the UI, wrote tests in Jest and Cypress, and used TravisCi and Jenkins for the CI/CD
  - Mentored and onboarded new UI engineers
  - Integrated webpack federated modules with Red Hat Insights platform
  - Guided a new team on using federated modules in order to have feature parity when Edge Management was absorbed by other Insights products.

TECHNICAL SKILLS

Go, Linux, Ansible, Kubernetes, React, JavaScript, TypeScript, Python