

MATTHEW G. BRANCHE

PRINCIPAL PLATFORM ENGINEER

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Platform and automation engineer with 13+ years of experience turning fragmented infrastructure workflows into secure, documented services. Builds internal platforms, APIs, automation libraries, CI/CD capabilities, observability, and self-service interfaces across lab and engineering environments. Combines hands-on Python and container engineering with systems integration, operational documentation, team enablement, and pragmatic cross-functional delivery.

TECHNICAL CAPABILITIES

Platform and automation: Python, Bash, FastAPI, REST APIs, Docker, Docker Compose, Jenkins, Git, GitHub, Jira, Artifactory, HashiCorp Vault, NGINX

Infrastructure and observability: Linux, Windows, VMware/ESX, NetBox, Prometheus, Grafana, SNMP, cAdvisor, infrastructure exporters, server management, PXE, Fibre Channel SAN, and IP networking

Engineering practices: API integration, reusable libraries, CI/CD, secure runtime configuration, release management, technical documentation, service operationalization, training, and knowledge transfer

PROFESSIONAL EXPERIENCE

Dell Technologies | San Jose, California

Apr 2019 - Present

Lab Support Principal Engineer

Assignments across Data Protection Software Release Engineering and Lab Services and Operations

- Created a one-stop lab services portal, extended it with FastAPI and Jira-backed intake, and helped scale the service pattern with additional engineering groups into a centralized platform that processed 969 requests from December 2025 through September 2026.
- Implemented web forms and REST submission with configurable routing, requestor-context lookup, issue creation, attachments, watchers, deployment packaging, and operating documentation.
- Developed reusable Python integration libraries with packaging, versioning, examples, documentation, and tests, giving automation consumers consistent interfaces to infrastructure services.
- Supported an automation ecosystem spanning 300+ Jenkins jobs across 50+ repositories while helping establish centralized source control, execution, secure runtime configuration, and package-distribution patterns.
- Deployed and evolved a containerized HashiCorp Vault service for team credentials and automation, including a later high-availability pattern, and supported migration toward broader centrally managed capabilities.
- Helped evolve infrastructure monitoring from basic reachability checks into a reusable Prometheus and Grafana platform, expanding exporter-based monitoring across infrastructure classes and 11 lab sites.
- Customized and deployed containerized NetBox with enterprise authentication and inventory synchronization, extending it from rack elevation into a planning tool used across infrastructure service teams.
- Converted recurring team enablement into durable CI/CD training, recordings, SOPs, and role-specific documentation covering Python, containers, Jenkins, Git/GitHub, Jira, automation, and service workflows.
- Earlier in the role, consolidated lab-infrastructure scripts, supported software release-engineering labs, and improved lab-to-cloud development patterns across AWS, Azure, and Google Cloud.

Brocade, a Broadcom Company | San Jose, California

Nov 2017 - Apr 2019

Senior Global Service Lab Engineer, BSN Lab Services

- Expanded self-service lab access through a deployed web portal and synchronized automation tooling.
- Automated power management and improved utilization visibility to support lower operating costs, better capital use, and a smaller physical lab footprint.
- Deployed customer proof-of-concept environments and produced technical, support, and training materials for lab operations and sales demonstrations.

Brocade | San Jose, California

Jun 2013 - Nov 2017

Lab Services Engineer, CID Team, Worldwide Lab Services

- Coordinated automation that centralized lab access, improved resource utilization, and simplified customer-facing demonstration workflows.
- Supported technical assistance, sales, and professional-services teams with environments for testing, education, demonstrations, and operating documentation.

RECOGNITION AND HISTORICAL CREDENTIALS

CloudShell Champion, Quali, 2018 | CCNA, BCNE, and RHCSA, historical and expired