# Shane Bostick

| Aurasell | San Mateo, California | Oct 2025 - Current |
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### SRE — Observability, Infrastructure
- Major infra code refactoring and state migrations across all logical components
- Network planning and VPC re-architecture for multi-account cross-region VPN access
- Migrated Kubernetes/Helm manifests to overlay model for platform and services
- Stabilized Karpenter autoscaling and fixed K8s configurations for seamless deploys
- Overhauled observability stack into production grade infra (Prom/Loki/Grafana)
- Integrated Datadog and Coralogix/OTEL into EKS clusters, wired up app level tracing
- Added Cloudwatch alarms for all critical infra including lake house and workflow engine
- Setup initial observability log pipelines, dashboards, metrics filtering, alerting

| Amazon AWS | Bellevue, Washington | Apr 2024 - Oct 2025 |
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### SysDe — Elastic MapReduce
- Led IPv6 enablement for EMR core API service, including changes to DNS, load balancers, VIPs, PrivateLink, X509 certificates, reverse proxies, proxy protocol version upgrades, FIPS configurations, and backend client auth. Managed production traffic cutovers, backfilling customer private endpoints, and driving formal change management process with input from service owners. Covered existing region migrations, infra modeling for new regions, patching divergent legacy environments, and working with constraints of ADC (isolated) environments. Wrote qualification infrastructure and tests utilizing packet capture to verify traffic across all region-endpoint-subnet-protocol combinations before publishing regional IPv6 support.
- Individual contributions to AWS EMR Region Build automation (Ruby, Python, Java)

| Palo Alto Networks | Santa Clara, California | Nov 2022 - Apr 2023 |
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### Principal SRE — Cloud Management Platform
- Optimized observability layer (Prometheus, Grafana, DataDog). Analyzed existing monitoring/ alerting configurations and service/cloud metrics to deliver dashboard performance optimizations, drastically reduce false positive alerts, and design new customer-facing service uptime measurement approach.
- Cost optimization for production infrastructure (Python, GCP, Terraform). This effort primarily focused on cloud spend reductions through right-sizing, cleanup of deprecated infrastructure, and resource configuration tuning for Kubernetes deployment environments.
- CVE remediations across FedRAMP and commercial production environments (Docker, GKE)

| Red Hat | San Francisco, California | Apr 2021 - Nov 2022 |
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### Senior SWE — Advanced Cluster Security
- Built scale-testing infra using OpenShift Cluster Lifecycle Manager (GCP/AWS/Azure)
- Migrated legacy CI/CD pipelines to RedHat internal platform (Podman, Buildah, Ansible)
- Most work focused on post-acquisition integration to use Red Hat OpenShift tooling, internal systems and release process.

| StackRox | Mountain View, California | Nov 2020 - Apr 2021 |
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### Staff SWE
*Acquired by Red Hat (see above)*
- Build/deploy pipelines for StackRox (GKE, EKS, AKS, CircleCI, Github Actions)

- Private container register cache fixes (Go, Cloudflare, GCP cloud storage)

| UJET | San Francisco, California | Oct 2018 - Nov 2020 |
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**Senior SRE** — UJET Platform
- Workload containerization and scale out (Docker, EKS, Atlantis, AWS, Ruby/Sidekick)
- Automated seamless fail-over and disaster recovery testing (Bash, Python)
- Integrated ProxySQL for seamless deployments (MySQL)
- Restructured tenant sub-accounts to enable automation (Twilio, Python)
- Automated usage/billing reports for finance (Python, MySQL)

| YouTube | Mountain View, California | Dec 2016 - Sep 2018 |
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**EngProd** — Backend Video Infrastructure
- Resource forecasting via synthetic infrastructure modeling (BCL, Python)
- Built backend utilization analysis utility using Borg data warehouse (Python)
- Compliance remediations for YouTube backend services (Blaze, BCL)
- Added flaky test detection service into release qualification pipeline (BCL, Python)
- Contributed multiple regression analysis improvements to backend release pipeline (Python)

| Nest | Palo Alto, California | Nov 2015 - Dec 2016 |
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**SETI** — Nest Protect
- Wireless device lab buildout and test infrastructure provisioning (Python, SaltStack, Shell)
- Full automation of functional test suites for hardware devices (Python)

| SK-Hynix | Santa Clara, California | May 2015 - Sep 2015 |
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**SETI** — Chip development tooling
- Qualification pipelines for CSR Compiler workflows

| NVIDIA | Santa Clara, California | Aug 2014 - Apr 2015 |
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**SWE** — Developer tools, GTL platform
- Automation of developer tooling validation (Perl, Shell)
- Developer tools testing against pre-production ARM Linux/Android devices (Perl, GTL)

| Samsung | San Jose, California | Jul 2013 - Jun 2014 |
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**SWE** — SoC functional validation
- Firmware and device qualification pipelines
- Implement test fixtures for Synopsis HAPS, Lauterbach Trace32 devices
- Lab network and systems buildout

| NVIDIA | Santa Clara, California | Mar 2009 - Jul 2013 |
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**SWE** — CUDA driver
- Chip HAL bring-up testing with model simulator (C++)
- CUDA string-based API deprecation and developer documentation updates (C++)
- Pipeline migrations to DVS private cloud (Perl, Make)
- MacOS kernel-mode test Integration (C++, Perl)

**SETI** — CUDA driver and toolkit validation
- Test framework and libraries release qualification
- Database redesign and new frontend

| Adecco | Boise, Idaho | May 2000 - Mar 2009 |

**Firmware Engineer** — ASIC diagnostics platform
- Cross compilation toolchain and linker script maintenance, build/test framework
- Diagnostic firmware for NAND, I2C, SPI, PCI blocks; porting to new hardware

**SWE** — Printer emulator development for HP LaserJet firmware testing
- Ported PCI device driver for FPGA based emulator from LynxOS to Linux
- Printer emulator platform development
- Lab bench test harness for SoC development boards