



Kenny Sheridan

Infrastructure Product Engineer for AI, robotics, edge, agentic workflows, and supercomputing systems.

Systems engineer with 10+ years of experience turning complex infrastructure into production-ready platforms.

I build and evaluate reproducible AI-first, robotics, edge, and datacenter systems for agentic workloads, including offline AI and HPC for regulated or contested environments, bare-metal GPU orchestration, Kubernetes control planes, distributed Raft-backed reconciliation loops, high-performance networking and storage, QEMU/KVM sandboxing, observability, benchmarking, workload-to-hardware matching, and technical stack/infrastructure viability assessments.

My experience spans medium-sized companies scaling into Fortune 500 operations, as well as pre-seed through post-Series A startups valued from \$300M to \$1B. I work well in startup environments where priorities change quickly and ideas need to become shipped systems without losing reliability or technical depth. I'm a former U.S. Marine Corps meteorology instructor with hands-on HPC delivery experience across NVIDIA and AMD platforms for AI/ML, robotics, edge, simulation, and datacenter workloads.

10K+

GPUs automated across heterogeneous providers and clusters

800G+

InfiniBand and NVMe-oF fabric experience

10+ yrs

Production infrastructure and product monetization

LOCATION **Seattle, WA** EMAIL kennethdashensheridan@gmail.com GITHUB github.com/kennethds Sheridan FORGEJO forgejo.kennysheridan.io
CODEBERG codeberg.org/kennysheridan LINKEDIN linkedin.com/in/kennethdashensheridan

EXPERIENCE

Member of Technical Staff - Infrastructure Product | Andromeda

Greater Seattle Area, Remote | March 2026 - Present | Website: andromeda.ai

- Serve as a senior product-engineering contributor shaping AI-first infrastructure product direction across robotics, edge, Kubernetes, observability, platform delivery, and customer-facing workflows.
- Delivered major infrastructure products on compressed iteration cycles, translating ambiguous product and infrastructure requirements into shipped systems, automation, and operational patterns.
- Drive Kubernetes platform work beyond observability, including deployment workflows, control-plane integration, cluster operations, developer experience, and productized infrastructure paths.
- Create rich Kubernetes and infrastructure product documentation for customer-facing workflows, designed for online hosting, mobile viewing, and clear operational adoption.
- Use Nix, Kubernetes, and QEMU/KVM to build reproducible package, sandboxing, isolation, deployment, and repeatable infrastructure validation environments.
- Guide performance engineering, system modeling, cache strategy, storage evaluation, offload analysis, and workload placement so products reach market quickly without losing operational reliability.

Senior Supercomputing Infrastructure Engineer | San Francisco Compute Company

Greater Seattle Area, Remote | September 2024 - March 2026 | Website: sfcompute.com

- Led automated bring-up for 2,000 NVIDIA H100 GPUs, moving bare metal into operational Kubernetes clusters through a single-command Rust-based deployment workflow.
- Scaled onboarding from 8 nodes to hundreds of GPU nodes within weeks, reducing product iteration time by eliminating manual provisioning across hardware, networking, and company infrastructure integration.
- Deployed distributed supercomputing infrastructure globally for GPU marketplace capacity, with emphasis on scalable utilization, reliability, and operational repeatability.
- Built and open-sourced Rust tooling for serialized infrastructure inventory plus object-storage and network throughput profiling across bare-metal AI/HPC environments.
- Designed a private Linux-side hardware discovery and lifecycle agent for bare-metal fleet introspection, host validation, and infrastructure control-plane integration.
- Optimized compute, SDN, network fabric, high-performance storage, performance testing, custom Kubernetes controllers/operators, resource management, near-metal validation, and repeatable systems setup.

Senior AI and HPC Infrastructure Engineer | TensorWave

Greater Seattle Area, Remote | May 2024 - July 2024 | Website: tensorwave.com

- Architected on-premises AMD MI300X GPU clusters using EPYC CPUs and RDMA over Converged Ethernet on traditional TCP/IP networks.

SKILLS

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|-----------|---|
| CODE | Linux, Rust, Go, Bash, NixOS |
| BUILD | Nix packaging, QEMU/KVM |
| CONTROL | Kubernetes operators, GitOps, Argo CD |
| AGENTIC | Workflows, harnesses, MCP |
| DATA | Raft reconciliation, embedded databases |
| HARDWARE | Bare metal, Redfish, H100, H200, B200, B300, MI300X |
| GPU | CUDA, ROCm, NCCL |
| FABRIC | RoCE, InfiniBand, NVMe-oF, SONiC, SDN |
| OVERLAY | Tailscale, Netmaker |
| OFFLOAD | SmartNICs, Smart Storage cards |
| STORAGE | Weka, VAST, Ceph |
| TELEMETRY | OpenTelemetry, Prometheus, Grafana |
| PERF | FIO, iperf3, stress-ng, MPI, PyTorch |

STRENGTHS

Defense AI infrastructure

Build offline AI and HPC platforms for regulated, contested, edge, simulation, and datacenter workloads.

Reproducible systems

Make infrastructure repeatable, auditable, and safe to operate across environments.

GPU and edge orchestration

Automate accelerator fleets across providers, clusters, and constrained networks.

Fabric and storage paths

Design data movement, storage access, offload paths, and telemetry for reliable workloads.

Validation-first delivery

Benchmark, stress, profile, model, and place workloads with operational evidence.

- Benchmarked NVIDIA InfiniBand and AMD RoCE designs, including high-bandwidth all_reduce testing over 800G switching infrastructure.
 - Designed vendor-agnostic AI/ML infrastructure patterns capable of scaling toward hundreds of nodes while reducing accelerator lock-in.
 - Created deployment documentation for GPU cluster setup, configuration, and operational handoff.
- **Senior Hardware Infrastructure Automation Engineer | ServiceNow**
Kirkland, WA | February 2022 - December 2023 | Website: servicenow.com
 - Engineered HPC system testing software for distributed enterprise infrastructure, including stress validation, benchmarking, and reliability assessment workflows.
 - Validated infrastructure hardware for IL5, FedRAMP, and FedRAMP High environments, including Thales SafeNet security devices.
 - Led migration of internal automation from Python and Bash to Go, improving efficiency across heterogeneous hardware environments.
 - Built Redfish-based SKU auditing, NIC benchmarking, and GitLab CI/CD workflows for hardware-software validation.
 - **Senior Cloud Hardware Performance Test Engineer | ServiceNow**
Kirkland, WA | May 2017 - February 2022 | Website: servicenow.com
 - Led hardware performance testing across storage, networking, BIOS, firmware, PCIe, FPGAs, SmartNICs, Smart Storage cards, NVMe, Linux filesystems, Weka, VAST, and Ceph.
 - Worked with ODMs, system engineers, CTO stakeholders, and product teams to refine infrastructure roadmaps and train engineers on repeatable test methods.
 - **System Administrator | NexLevel Information Technology**
Sacramento, CA | August 2015 - May 2017 | Website: nexlevelit.com
 - Provided Tier 3 Unix and Windows server support for biometric systems serving 300+ remote clients, including storage recovery, monitoring scripts, and production baseline improvements.
 - **Technical Instructor of Meteorology | U.S. Marine Corps**
Quantico, VA | May 2007 - June 2015 | Website: marines.mil
 - Administered two modular data centers, maintained METMF(R) computing infrastructure, virtualized instructional environments, and managed WAN-connected remote sensing sites.
 - Produced 300+ surface observations, 100+ forecasts, and 50+ weather warnings cited in Navy and Marine Corps Achievement Medal recognition.

SELECTED ENGINEERING WORK

- **Repeatable AI infrastructure environments**
Nix | QEMU/KVM | Secure packaging | Model-serving cache paths
Set up deterministic infrastructure environments that use Nix for secure packages, QEMU/KVM for sandboxed validation, and caching strategies to serve AI models quickly.
- **AI-first infrastructure product delivery**
Kubernetes | Product engineering | Observability | GPU platforms
Delivered customer-facing and internal infrastructure products at 9,000+ GPU scale, balancing fast iteration, operational adoption, Kubernetes platform work, and production reliability.
- **Automated GPU bring-up and onboarding**
Rust | Kubernetes | Bare metal | NVIDIA H100
Single-command workflow that deploys hardware, joins company infrastructure, configures networking, and removes manual intervention from large-scale GPU node onboarding.
- **Infrastructure inventory and throughput profiling**
Rust | Hardware inventory | Object storage | Network profiling
Built public tooling for serialized hardware reports and portable object-storage and network throughput profiling, supporting faster validation across bare-metal AI/HPC fleets.
- **Bare-metal lifecycle agent**
Rust | Linux agents | Hardware discovery | Control-plane integration
Designed private host-side agent work for hardware discovery, lifecycle state, fleet validation, and integration with infrastructure control planes.
- **Multi-node GPU cluster networking**
AMD MI300X | NVIDIA | RoCE | InfiniBand | 800G fabrics
Designed vendor-agnostic topologies across AMD and NVIDIA accelerators, including RoCE on TCP/IP networks and InfiniBand benchmarking for large-scale AI/HPC clusters.

OPEN SOURCE

Forgejo portfolio

Self-hosted forge for systems architecture and private/public engineering work.

GitHub profile

Public Rust, Nix, GPU, MCP, and developer tooling repositories.

Neovim tooling

Lua-based personal and professional editor configuration used since 2015.

EDUCATION

Air University / Community College of the Air Force

Keesler AFB | 62 credits in meteorology, forecasting, and atmospheric physics

CERTIFICATIONS

Introduction to Blockchain

Amazon Web Services, 2021

Basic Instructor Course

Community College of the Air Force, 2012

Meteorology and Oceanography Analyst Forecaster

Community College of the Air Force, 2008

RECOGNITION

Navy and Marine Corps Achievement Medal

Good Conduct Medal

Letter of Appreciation, Director of Meteorology