Katherine Schlosser

Cree/Métis Systems Architect | Cloud & DevOps Specialist Lloydminster, SK |
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Professional Profile

Results-driven Systems Architect focused on building resilient, rural-first infrastructure. Specialized in **SCDC (Single Cluster, Distant Client)** models to solve connectivity and resource constraints in remote environments. Committed to **Green DevOps** and sustainable resource management, bridging the gap between high-tech cloud solutions and community-led innovation.

Core Technical Stack

- **Infrastructure:** AWS (IoT Core, Lambda, S3, CloudWatch), HashiCorp Nomad, Terraform, Packer.

- **Engineering:** Node.js, Python, Bash, JSON.

- **Networking:** CCNA-trained (VLANs, Subnetting, Routing Protocols).

- **Agile:** Project Lifecycle Management via **Linear**, Git/GitHub Version Control.

Featured Case Study: Nomad Edge

Lead Systems Architect | 2025 – Present

- **Architecture:** Developed a resilient telemetry engine using an SCDC model to ensure data integrity for agricultural sensors in high-latency environments.

- **Automation:** Codified infrastructure using **Terraform** and utilized **Packer** to bake immutable, secure Amazon Machine Images (AMIs) for edge consistency.

- **Validation:** Engineered a Python-based edge simulation to stress-test the telemetry bridge and verified security posture through automated failure-mode testing.

- **Project Governance:** Managed a full 18-ticket engineering roadmap in **Linear**, maintaining professional documentation and sprint discipline.

Technical Residency & Systems Lead

Independent | 2020 – 2025

- **Specialized Study:** Executed a 5,000-hour self-directed engineering curriculum focused on Advanced Cloud Networking and Distributed Systems.

- **Certification Pursuit:** Achieved a 661/720 proficiency score on the AWS Developer Associate curriculum; currently finalizing core competencies for certification.

- **Network Design:** Engineered a secure, multi-departmental network topology for a municipal hospital simulation in Cisco Packet Tracer, focusing on VLAN segmentation and high-availability routing.

Education & Affiliations

- **Cree/Métis Heritage:** Registered member with affiliations in Alberta and the Manitoba Métis Federation.

- **Horticulture & Healthcare:** Comprehensive background in sustainable systems and professional healthcare environments.