# Nate Schmoll

me@nat.sh / https://nat.sh / Frisco, TX, US

*Deep generalist with a background in DevOps, Site Reliability, Systems, & Network Engineering*

## Overview

I am a *deep generalist* (broad knowledge, deep capabilities) in search of a role that combines operating system, network, application, and security troubleshooting, as well as wholistic system optimization and scaling.

## Experience

**2024 - present**        **Cisco Systems**               **Frisco, TX (remote)**
*Site Reliability Engineer*

- Re-implementing existing services with applicable controls in automated environments utilizing Kubernetes and Argo
- Running new environments with FedRAMP agency Authorization to Operate (ATO)
- Executing at Moderate and High Impact Levels (ILs)

**2022 - 2024**        **Schmoll Systems LLC**        **Frisco, TX (remote)**
*Principal*

- Developed Go-based cloud resource & systems management software
- Managed cloud resources for many clients

**2020 - 2022**        **Salesforce.com (MuleSoft)**    **Santa Fe, NM (remote)**
*Principal Site Reliability Engineer*

- Ensured stability of FedRAMP Moderate impact level, GovCloud-hosted environments
- Drove uplift of environment to FedRAMP High impact level
- Handled day-to-day operational tasks, incidents, and post-mortem remediation follow-ups

**2018 - 2020**        **Subsplash**               **Santa Fe, NM (remote)**
*Senior Site Reliability Engineer*

- Migrated many Go-based microservices to Kubernetes (EKS in AWS)
- Automated microservice deployment to Kubernetes using Terraform and GitLab CI
- Facilitated consolidation of several acquisitions into existing systems and networking infrastructure
- Ensured secure and PCI-DSS compliant environment for financial transactions

## Tools

- > **Cloud**: AWS, GCP
- > **OS**: Linux, FreeBSD, OpenBSD, macOS, ESXi
- > **OS Tool**: strace, ktrace
- > **Net Platform**: Cisco IOS, JunOS, FortiOS, Meraki, Check Point, RouterOS
- > **Net Tool:** tcpdump, haproxy, WireGuard, VXLAN, OSPF
- > **Deployment & GitOps**: git, Jenkins, GitLab CI, GitHub Actions, Nomad, Terraform, Kubernetes, EKS, GKE, Argo
- > **Security**: HIDS, LIDS, OSSEC
- > **Monitoring**: Grafana, Splunk, Nagios, Xymon, Zabbix, Filebeat, Prometheus, Elasticsearch
- > **Filesystems**: ZFS, ext4, XFS
- > **Persistence**: MySQL, Percona, MariaDB, PostgreSQL, memcached, Redis
- > **Compliance**: PCI-DSS, FedRAMP ("govcloud")
- > **Code**: Golang, PHP, Ruby, shell/bash, Python, Java, Django, Rails

**2013 - 2018**  **Salesforce.com (Pardot)**  **Seattle area, WA (remote)**

*Lead Site Reliability Engineer & Infrastructure Security Engineer*

- Followed site reliability best practices for maximum consistency, stability, and performance
- Ensured systems are compliant with Salesforce Trust standards
- Worked with dynamic environment heavily influenced by developers
- Managed environment with heavily automated deployment infrastructure using Chef & Terraform
- Met the needs of developers deploying code to production multiple times per day

**2012 - 2013**  **ServiceNow**  **Kirkland, WA (hybrid)**

*Performance Engineer*

- Troubleshot production application performance issues
- Researched database performance improvements for thousands of MySQL database engine instances
- Tested various hardware combinations for optimal price-performance business return

**2007 - 2011**  **SAP Concur**  **Redmond, WA (hybrid)**

*UNIX Systems Engineer II*

- Deployed and managed more than 100 Red Hat Enterprise Linux systems supporting diverse functionality, all within a two-person team
- Supported development team and data mining initiative with deployment and maintenance of a heavily-loaded Hadoop cluster
- Managed Active Directory deployment in 1300-server, multi-site environment

**2004 - 2006**  **Breakwater Security Associates**  **Seattle, WA (on-site)**

*Network Security Engineer*

- Pioneered an internal migration from Microsoft Exchange 5.5 to Exchange 2003
- Assisted clients with system modifications and updates
- Responded to network and system outages under strict Service Level Agreements

# Education

**2005 - 2008**  **University of Washington**  **Bothell, WA**

*Attained Bachelors of Science in Computing & Software Systems*