# Trent Ransom

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Senior Technical Architect leading a 3-person team building and hardening enterprise AWS infrastructure for federal, regulated environments. Focused on AWS SSM and terraform based automation, Landing Zone Accelerator design, and Linux infrastructure at scale including a 500-server fleet and a ~40-account AWS environment with hundreds of security findings remediated monthly. Builds custom tooling to solve operational gaps, from infrastructure mapping (Cartography/Neo4j) to AI-driven ticket automation. Holds a Public Trust suitability determination and an AWS Certified Solutions Architect Professional certification.

## Professional Experience

### Accenture Federal Services

Tech Architecture Specialist (October 2026 - Present)

Tech Architecture Senior Analyst (April 2025 - October 2026)

DevOps Associate (April 2024 - April 2025)

- Led a redesign of our AWS environment using AWS Landing Zone Accelerator, aligned to NIST 800-53 and FedRAMP High controls. Adhered strictly to Infrastructure as Code for all resource creation, leveraging Terraform for resources outside LZA's native scope. Presented the plan to the client and key stakeholders and executed the migration to the new approved architecture.
- Independently architected modular Infrastructure as Code (Terraform) and SSM configurations to automate compute provisioning lifecycles, and patching automation, replacing fragmented Ansible jobs. Cut deployment times from 2-3 hours to 15-30 minutes and patching effort per cycle from 8-10 hours to 1-2 hours of work.
- Lead a team of 3 engineers in remediating security and vulnerability findings across cloud infrastructure and EC2 fleets, training on patching and vulnerability remediation, assigning and reviewing work. The team closes an average of ~500 CrowdStrike findings and 100 Tenable Security Center findings monthly to maintain DISA STIG compliance and FedRAMP High security baselines.
- Built custom infrastructure observability and network mapping tooling using Cartography (Python/Neo4j), enabling graph-based telemetry and automated identification of network, performance, and security bottlenecks across 40+ accounts.
- Built an MCP server integrating Jira with Claude to automate ticket creation, including bulk generation of access tickets for new team members and sprint-planning ticket creation from natural-language work descriptions, significantly reducing manual ticket overhead.

### Smoothstack

DevOps Analyst (December 2023 - April 2024)

- Trained for deployment to AFS. Training included AWS Architecture, Docker/Kubernetes, Terraform, and Ansible

## Technical Skills

- **Cloud Platforms:** AWS (SSM, EC2, VPC, IAM, Control Tower, Landing Zone Accelerator, WorkSpaces), Azure (AI Foundry)
- **Automation & Orchestration:** Terraform, SSM Automation and Maintenance Windows, Ansible and Ansible Automation Platform (AAP), Cartography, CI/CD
- **Operating Systems:** Linux (Administration & Automation)
- **Languages:** Python, Bash, HCL
- **Security & Compliance:** DISA STIGs, FedRAMP High, NIST 800-53, Protegrity, CUI Handling, DevSecOps, Hardened Environments, Identity & Access Management

## Certifications

- **AWS Certified Solutions Architect - Professional** - Issued September 2026 (expires September 2029)
- **AWS Certified Solutions Architect** - **Associate** - Issued June 2025 (expires September 2029)
- **Certified Kubernetes Application Developer (CKAD)** - Issued May 2024 (expired May 2026)

## Education

**Columbia University** - Fintech Bootcamp Certificate

**DePaul University School of Music** - Master of Music (MM) in Violin Performance

**New York University (NYU)** - Bachelor of Music (BM) in Violin Performance, Minor: Music Business