

# Jude Quintana

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## Summary

I'm a Staff Cloud Engineer with 10+ years of experience designing and automating large-scale, multi-region network systems. Proven track record of improving availability, scalability, and performance through Terraform, Kubernetes, and service mesh technologies. Passionate about solving hard networking problems, mentoring teams, and building secure systems that scale.

## Education

- University of Colorado at Denver - Computer Engineering (2003 - 2004) Denver, CO
- Colorado State University - Computer Science (2001 - 2003) Fort Collins, CO

## Technical Skills

- **Cloud Networking:** AWS (VPC, Transit Gateway, IPAM, Cloudfront, DNSSEC), Istio Service Mesh (Sidecars and Ambient), Cloudflare, VPNs.
- **Infrastructure as Code:** Terraform
- **Configuration Management:** SaltStack, Puppet
- **Programming:** Ruby (Rails), Python, Golang, Bash
- **Containerization & Orchestration:** Kubernetes, Nomad, ArgoCD

## Leadership and Collaboration

- Mentored junior engineers in career growth and technical progression.
- Collaboration with engineers of all levels (junior, senior, staff, principal and chief architect).
- Interviewed and helped onboard 10+ Engineering Managers, Site Reliability and Devops engineers.
- Led Devops planning sessions, participated in senior tech lead meetings and involved in company wide culture shaping.

## Certifications

- AWS Developer Associate (Nov 2017 - Jun 2023)
- AWS Devops Professional (Jun 2020 - Jun 2023)

## Open Source

- Maintaining the [AwS CLouD NeTWoRKiNg SuiTE 3000](#) repository for building and scaling cloud network topologies from base components in AWS and Terraform including a [WIP white paper](#).
- Created [Cloud Infra Lab](#), a cheap yet scalable ALB + ASG + NGINX + RDS setup with opinionated Terraform patterns for learning.

## Accolades

- 3x AWS Community Builder (2023 - 2025)
- 3x HashiCorp Ambassador (2021 - 2023)

## Experience

**Coalesce** - *Senior DevOps Engineer* (Aug 2025 - Nov 2025) Denver, CO

- Solving infrastructure problems at scale for Coalesce, a data transformation platform.
- Built a PKI generator in Python with OpenSSL to automate SPIFFE compatible internal PKI architecture as a prerequisite for service mesh in a multi-cloud environment (AWS, GCP, Azure).
- Researched and experimented with SPIRE for potential cross cloud communication.
- Implemented Istio Ambient service mesh with custom trust domain in EKS.

**JumpCloud - Staff Cloud Engineer** (2022 - Feb 2025) Louisville, CO

- Transitioned from the Devops Team to a newly formed Traffic Engineering Team for JumpCloud, a cloud based Identity Provider (IDP).
- Organization wide investment in migrating services from configuration managed EC2s to EKS and implementing a developer ownership model:
  - Constant collaboration with Platform teams and dev teams.
  - Experience with GitOps, ArgoCD, Helm, Kustomize and GitHub Actions.
  - Learned Kubernetes workflows, service mesh, and tooling.
  - Contributed to code generation tooling in Golang to build application dependencies in Terraform and EKS.
- Managed:
  - Cloudflare application services (DNS, WAF, Workers, etc) and domain registrars.
  - Zscaler access to all environments.
  - Proxy services
    - Migrated service layer proxies from EC2 to EKS increasing deployment speed by 40% and maintaining 100% uptime.
  - DNSSEC
    - Implemented DNSSEC for critical zones across 3 different DNS providers in a maintainable and expandable Chain of Trust.
    - Wrote comprehensive docs with example Terraform implementations for validation.
    - Implemented Key Signing Key rotation ceremony for Route53 zones and monitoring.
  - Istio service mesh in EKS
    - Traffic routing with Ingress, East-West and Egress gateways.
    - Management, upgrades, and troubleshooting with K9s.
    - Experience with ExternalDNS and CertManager.
  - CDNs
    - Fixed several customer reported CDN issues.
    - Redesigned, tested and deployed new Cloudfront Terraform module to replace old crufty modules that were difficult to maintain.
      - Built a module with a flexible interface that made it easy for devs to scale origins behind Cloudfront using object oriented patterns.
      - Collaborated with various dev teams in migrating their assets to two new CDNs.
      - Automated cache invalidation in Python via GitHub Actions for new agent rollouts.
    - Saved the company over \$400K in annual cost for CDNs with high egress data transfers.
      - Evaluated 5 CDNs from 3 providers by testing download speeds and validating asset integrity from 5 regions.
      - Settled on a new provider for a reliable global CDN and great egress flat rate.
      - Tested, deployed and migrated agent assets to new provider CDN.
- Familiar with Transit gateway control plane for cross account VPC sharing and mesh routing.
- Involved in Request For Comments (RFC), Architecture Decision Records (ADR) and Post Incident Reviews (PIR) across teams.
- Executed critical security tasks to enhance overall security posture in AWS and Istio.
- Assisted with migration from Terraform Cloud to Spacelift.
- Familiar with AWS and Kubernetes privilege elevation security process.
- Designed a AWS Private CA Hierarchy an entry point for evaluating Private CA.

### **JumpCloud - Senior Devops Engineer (2020 - 2022)**

- Contributed to implementing, operating and maintaining the HashiStack clusters across our SaltStack managed EC2 infrastructure for both internal and external services:
  - Consul service mesh to help with service readiness.
  - Vault for managing PKI backends, CAs and certificate signing.
  - Nomad for the very beginning of containerizing microservices.
  - Building and maintaining guidelines for strong Terraform dev patterns.
- Scrum Master
  - Running Standups.
  - Prioritizing backlog tasks and aligning with business goals.
  - Leading Devops planning sessions.
- Frequent involvement in troubleshooting and resolving production incidents.
- Executing security compliance tasks to decrease our attack surface area on the edge.
- Consistently troubleshooting and fixing SaltStack deployment issues.
- Involved in purchasing and planning migration to Terraform Cloud for our infrastructure CI.
- Passed AWS Devops Pro certification exam that allowed the organization to partner with AWS.
- Promoted to Staff Cloud Engineer.

### **JumpCloud - Devops Engineer (Dec 2017 - 2020)**

- Utilized SaltStack to test, deploy and maintain infrastructure configuration of internal service applications, open source utilities and secrets management to multiple environments.
- SaltStack formula development and testing with CICD.
- Managed DNS and SSL certificates.
- Participated in on-call rotation.
- Consistently debugging and fixing production issues.
- Designed and built an EC2 autoscaling CICD pipeline that decreased 120+ statically provisioned mTLS proxy EC2s by 83%.
- Maintained HAProxy binary builds and CentOS builds.
- Migrated core Radius edge services out of GCP into AWS.
  - Implemented service database timeouts for graceful RDS failover vastly improving service uptime by over 50%.
  - Deployed several cross region Radius edge services for the first time including RDS replication.
  - Performed scheduled and emergency cross region RDS upgrades.
- Infrastructure and networking development in AWS with Terraform and SaltStack.
- Built IAM policies for cross region and cross accounts.
- Refactored a critical internal Golang monitoring tool to send time series metrics to DataDog with data pulled from MongoDB.
- Took an internal dev challenge to build a [hash server](#) using concurrency with shared variables in an effort to become more proficient in Golang.
- Promoted to Senior Devops Engineer.

### **Red Canary - Devops Engineer (Sep 2016 - Sep 2017) Denver, CO**

- Built critical cloud infrastructure in AWS for Red Canary, a managed detection and response platform.
- Handled daily support issues, managed projects and participated in the on-call rotation.
- Utilized Terraform and Puppet to provision cloud infra and configure hosts.
- Implemented internal SSO with MFA including the PKI.
- Laid the groundwork for passive DNS monitoring.

- Utilized open source and cloud based tools for monitoring, collecting metrics and analyzing logs to troubleshoot production issues.
- Wrote, tested and deployed detection features, API integrations and fixed bugs in Rails.
- Wrote a single page Javascript demo application for use with the Red Canary API as an example for customer development.
- Contributed to a Golang parsing utility to optimize parts of the ETL process.
- Familiar with operating Carbon Black endpoint detection software.

**Pentester Training - Student** (May 2016 - Oct 2016) Denver, CO

- Developed entry level penetration testing skills using Immunity Debugger, Metasploit and Kali Linux tooling.
- Basic reverse engineering of Windows and Linux binaries.
- Developed buffer overflow exploits in Python from scratch.
- Able to port public exploit code into Metasploit.
- Deployed tunneling techniques to bypass firewalls for data exfiltration.
- Exploited XSS, SQL injection, and file inclusion vulnerabilities in web apps.
- Learned to enumerate network targets, escalate privileges, and move laterally.
- Wrote conclusive pentest reports with recommended risk mitigations.
- Studied various aspects of the Cyber Kill Chain.

**P2Binvestor - Software Developer** (May 2015 - Jan 2016) Denver, CO

- Wrote, tested, and deployed portal features that enabled customers to easily borrow money and squashed pesky bugs for the fintech platform built in Rails and React.
- Built 2FA mechanisms and workflow.
- Familiar with component based architectures, service oriented architectures and asynchronous processing.
- Pair programming with peers and weekly group study for continuous learning at work.

**Bugcrowd, Inc - Security Analyst** (Jan 2015 - Apr 2015) Denver, CO

- Application security crash course. Reviewed and validated exploit submissions by security researchers from all over the world.
- Contributed to Javascript tooling to automate workflow and facilitated coordination of bug bounty programs for Researcher Operations.

**gSchool at Galvanize - Student** (Jun 2014 - Nov 2014) Denver, CO

- gSchool is a full stack immersive course with a focus on Ruby on Rails. Over the course of 6 months, the class covered Agile methodologies (pair programming, scrum, etc), Test Driven Development (RSpec, Capybara). MVC frameworks (Rails, Sinatra), Front-end JavaScript (vanilla, JQuery, JSON), Responsive Design (HTML/CSS, SASS), Databases (SQL, ORM, Postgresql), Git version control and API integration.
- Projects:
  - [Chess.ly](#) - A personalized chess database created to help track my chess games as well as famous favorites.
  - [Conspire API Challenge](#) - Rails REST API endpoint that reads from flat files stored on Amazon S3 and provides structured data to the client.
  - [Bugcrowd API Challenge](#) - Rails Generic Tagging JSON API that can store, retrieve, delete and report on the usage of a "tag" across different entities. Used Postgres to experiment with storing arrays for efficiency.
  - Completed '[Break Repeating Key XOR](#)' (a qualifying set) in the [Matasano cryptography challenge](#).

**LenderLive Network, Inc.** - *Network Engineer* (2012 - 2014) Glendale, CO

- Managed IT projects and deployed enterprise on-prem infrastructure to streamline network connectivity for remote office branches and data centers; including routing, switching, layer 7 filtering, packet analysis, VPNs, DNS and load balancing.
- Implemented certificate based network access control and utilized penetration testing tools for internal audits and testing.
- Experience with Perl script automation, virtual host provisioning, Linux/Windows server administration.

**Microtech-Tel** - *NOC Engineer* (2011- 2012) Englewood, CO

**Town of Estes Park** - *IT Consultant* (2010 - 2011) Estes Park, CO

**FirstLink, Inc.** - *Systems/Network Admin* (Internet Services Provider) (2007 - 2010) Denver, CO

**Intersystems Group** - *Systems Engineer* (Airport Information Management Systems) (2005 - 2007) Englewood, CO

**Aspen Systems** - *Production Engineer/ Linux Admin* (2004 - 2005) Wheat Ridge, CO

**JQ1 Enterprises** - *IT Consultant* (2002 - 2004) Denver, CO