

COREY BIAS

Cloud Infrastructure • Platform Engineering • AWS • Terraform

Charlotte, NC (Remote) | cbias10@gmail.com | (414) 704-9702 | LinkedIn: [linkedin.com/in/cbias](https://www.linkedin.com/in/cbias)

Professional Summary

Platform Engineer with 5+ years of experience building secure AWS infrastructure, internal developer platforms, and cloud automation for enterprise financial systems. Proven track record delivering multi-region disaster recovery, infrastructure-as-code with Terraform, production modernization initiatives, and self-service platforms that improve reliability while reducing operational cost.

Professional Experience

LPL Financial – Software Engineer (Remote)

Nov 2020 – Present

Cloud Infrastructure & Disaster Recovery

- Architected key components of a multi-region Disaster Recovery platform across 8 AWS accounts using Terraform, Lambda, API Gateway, Route53, CloudFront, and Secrets Manager, enabling automated failover for mission-critical shared platform services supporting multiple enterprise production applications.
- Resolved Terraform Cloud deployment failures impacting 11,700+ infrastructure resources by coordinating 92 remote-state migrations following a large-scale module architecture change.
- Designed phased deployment strategies that reduced deployment risk and improved production validation reliability across 8 environments.
- Designed resilient disaster recovery architecture leveraging Route53 health checks, failover automation, and AWS disaster recovery best practices across shared platform services.

Platform Engineering & Self-Service APIs

- Designed and built a secure self-service platform enabling System-of-Record (SOR) teams to manage SLA configurations independently, reducing manual engineering operational bottlenecks through API-driven automation.
- Sole owner of the solution architecture, implementation, infrastructure, testing, CI/CD pipeline, and production deployment using Python, Flask, AWS Lambda, API Gateway, DynamoDB, Terraform Cloud, GitHub Actions, and Octopus Deploy.
- Designed security architecture using ForgeRock OAuth2, JWT ownership enforcement, CMK-backed DynamoDB encryption, private API Gateway, VPC Endpoints, IAM policies, and environment-specific access controls.
- Diagnosed and resolved complex AWS authorization and networking issues spanning IAM, KMS, DynamoDB policies, API Gateway, and VPC Endpoint routing to restore secure cross-network connectivity.

Infrastructure Ownership & Cost Optimization

- Led decommissioning of MWAA and Aurora infrastructure across 8 AWS environments, eliminating approximately \$1M annually in projected cloud spend.
- Resolved Terraform lifecycle blockers involving Aurora snapshots, versioned S3 teardown sequencing, orphaned dependencies, and Terraform state-management limitations.

- Owned production change-management planning, implementation strategy, rollback planning, validation coordination, and ServiceNow governance.

API Modernization

- Designed reusable backend transformation infrastructure supporting migration from legacy services to OpenSearch-backed strategic-source APIs.
- Engineered configurable mapping architecture enabling scalable schema translation and advanced backend response transformation.
- Built resilient .NET APIs supporting phased modernization while maintaining legacy compatibility and reducing migration risk.

Platform Reliability & Observability

- Built centralized OpenSearch observability infrastructure improving operational monitoring and troubleshooting across enterprise automation services.
- Designed resilient fallback execution patterns preventing observability tooling failures from impacting production workflows.
- Integrated AWS Parameter Store and Secrets Manager for secure runtime configuration and dynamic feature enablement.
- Presented platform architecture to engineering leadership, translating technical implementation into measurable operational improvements.

Software Engineering Foundations

- Developed scalable Angular applications and reusable UI component libraries supporting enterprise financial platforms.
- Collaborated with product managers, designers, backend engineers, and architects on technical design, feature implementation, and architecture reviews.
- Improved maintainability and development velocity through reusable component architecture, automated testing, and CI/CD integration.
- Delivered production features in an Agile environment while maintaining performance, code quality, and long-term maintainability.

Earlier Professional Experience

Red Ventures – Software Engineer (Fort Mill, SC)

Nov 2018 – Jun 2019

- Contributed to CI/CD workflows, automated build pipelines, and unit testing practices for high-traffic consumer web applications.

Otis Elevator (UTC) – Software Engineer Intern (Florence, SC)

May – Aug 2018

- Developed and tested software for elevator operational systems and internal engineering tools.

Skills

Cloud: AWS, Terraform, OpenSearch

Programming: Python, C#, Java, TypeScript, SQL

Frameworks: .NET 8, REST APIs, Angular

DevOps: GitHub Actions, Octopus, CI/CD, SonarQube

Architecture: Platform Engineering, Disaster Recovery, Infrastructure Automation, Multi-Region AWS, Cloud Cost Optimization

Education

B.S. Computer Engineering — UNC Charlotte, 2018

M.S. Management — UNC Charlotte, 2020

Certifications

AWS Certified Solutions Architect – Associate [July 2026]

HashiCorp Terraform Associate [July 2026]

Microsoft Azure AI Fundamentals (AI-900) [May 2026]

LPL Aspiring People Leader Capstone [August 2025]