

# Ted Strall

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Lake Zurich, IL • [ted@strall.com](mailto:ted@strall.com) • [strall.com](http://strall.com) • [usekarma.dev](http://usekarma.dev) • [github.com/usekarma](https://github.com/usekarma) • [linkedin.com/in/tedstrall](https://linkedin.com/in/tedstrall)

## Professional Summary

Senior cloud infrastructure engineer with a focus on scalable system design, automated deployment pipelines, and secure AWS architecture. Creator of Adage and Karma, open-source frameworks for modular infrastructure and graph-based system tracking.

Experienced with Terraform, Kubernetes, Jenkins, and modern AWS services including Lambda, Fargate, EKS, Cognito, and RDS.

## Experience

### Senior Cloud Infrastructure Engineer

Sparksoft (via TISTA) – Remote

Jul 2023 – Mar 2025

- Took ownership of a complex Oracle-to-Oracle data migration involving 200+ interdependent SQL scripts tied to live production workloads on EKS.
- Fully automated the 14-hour migration process into a single-command workflow, replacing manual CI/CD steps with a DevOps-standard deployment model.
- Worked closely with data scientists and the client to identify and resolve legacy data quality issues ahead of the migration.
- Took ownership of the post-migration data model and aligned it with CMS standards through direct collaboration with analysts, developers, and DBAs.
- Re-architected the EKS cluster lifecycle using Terraform, improving reliability and consistency across environments.
- Implemented secrets orchestration via Ansible, Jenkins, and SSM Parameter Store.
- Enhanced observability with CloudWatch metrics, Datadog traces, and custom Grafana dashboards to surface systemic and performance issues.
- Designed and automated a repeatable Oracle RDS to Aurora PostgreSQL migration framework using Terraform, AWS SCT, DMS, and Git workflows—enabling rapid conversion testing via disposable environments.
- Provided hands-on support during production incidents, root cause analysis (RCA) and issue remediation.
- Worked directly with non-technical stakeholders to surface blockers, clarify priorities, and drive delivery.
- Stabilized infrastructure in a high-pressure production environment.

## Senior Cloud Engineer

TISTA Science and Technology – Remote

Jun 2019 – Jul 2023

- Designed and deployed production-grade infrastructure using Terraform, covering EKS clusters, serverless APIs, and multi-account architectures on both existing contracts and new proposals.
- Managed workloads using EKS, Lambda, API Gateway, S3, Aurora, and Route 53, ensuring uptime across dev, test, and prod environments.
- Defined parameter-driven deployment pipelines using SSM, IAM, and Secrets Manager, enabling secure environment separation and team handoff.
- Integrated Cognito for authentication in multiple applications with complex access control needs.
- Led the rollout of secrets orchestration via Ansible, Jenkins, and SSM, eliminating hardcoded credentials across environments.
- Delivered repeatable bootstrapping tools and CI/CD patterns adopted across teams.
- Supported infrastructure under active development pressure, debugging Terraform drift, IAM failures, and rollout issues in real time.

## Earlier Roles – Backend, DevOps, Data Engineering

Examples: Bank of America, Uptake, Finch Computing, Bloomberg Law

2008 – 2019

- At Bank of America, built Prometheus monitoring system and long-term storage backend using HDFS to retain time-series metrics at scale.
- At Uptake, supported predictive analytics for industrial clients with Python-based data pipelines and real-time monitoring.
- At Finch Computing, developed pipelines and services for large-scale data ingestion, transformation, and machine learning. Supported streaming workloads and real-time analytics.
- At Bloomberg Law, rebuilt backend of Bloomberg Law's legal search platform, migrating from legacy HP Autonomy to Apache Solr for improved relevance, scalability, and maintainability.

## Open Source

strall.com / Adage Infrastructure Studio – Lake Zurich, IL

- Built Adage, a Terraform-based framework for modular, multi-account AWS infrastructure with runtime-aware parameter management and identity-based access controls.
- Developing Karma, a graph backend using Amazon Neptune for infrastructure lineage and dependency tracking across services and environments.

- Both projects are used to prototype and document patterns I've developed through real-world cloud infrastructure work.

## **Skills**

Cloud: AWS (Lambda, Fargate, ECS, EKS, EC2, RDS, Aurora, S3, IAM, SSM, Cognito, CloudFront, Route 53, ACM, API Gateway, SNS, SQS)

Languages: Python, Java, HCL, Bash, SQL

Tools: Terraform, Kubernetes, Jenkins, Ansible, Docker, GitHub Actions, Prometheus, Grafana, Datadog, Splunk

## **Education**

University of Illinois – B.S., Software Engineering

DePaul University – M.S., Predictive Analytics (incomplete)

Completed all core and advanced courses; 3 courses short of degree