Ted Strall
Cloud & Data Infrastructure Engineer
Lake Zurich, IL
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Summary Innovative and pragmatic engineer with 15+ years of experience designing and implementing scalable data platforms, infrastructure-as-code frameworks, and cloud-native applications. Proven ability to deliver robust infrastructure and automation in both high compliance government environments and corporate contexts. Creator of **Adage**, an open-source AWS deployment framework focused on modularity, dynamic configuration, and environment aware automation.

Core Skills

- **Cloud Platforms:** AWS (EC2, S3, Lambda, CloudFront, Route 53, RDS, …)
- **Infrastructure & DevOps:** Terraform, Terragrunt, CloudFormation, GitHub Actions
- **Languages:** Python, Java, SQL, Shell scripting
- **Big Data & Analytics:** Spark, Hadoop, Hive, Kafka, Prometheus, InfluxDB
- **Other Tools:** Oracle, PostgreSQL, Antlr4, ElasticSearch, SOLR, Grafana, Linux

Experience

Senior Data Engineer

Sparksoft Corporation
Oct 2024 – Mar 2025

- **CMS Advanced Provider Screening Project**
- Successfully automated a 25 TB database migration from AWS RDS Oracle to Aurora Postgresql using AWS SCT and DMS
- Migrated maintenance of the CMS Advanced Provider Screening data model to a team of business analysts and engineers

Senior Data Engineer

TISTA Science and Technology Corporation
Jan 2023 – Sep 2024

- **CMS Advanced Provider Screening Project**
- Automated a complex, large-scale data migration of a 25 TB Oracle database
- Integrated automation and reporting developed into the standard release workflow

- Maintained the CMS Advanced Provider Screening data model using Erwin and custom scripting

Senior Software Engineer

TISTA Science and Technology Corporation
Oct 2020 – Dec 2022

- **Office of the CTO**
- Rapid Prototyping & Proposal Support
- Designed and implemented a self-service AWS infrastructure catalog using Terraform and Terragrunt
- Enabled modular, developer-friendly environments for websites, APIs, and microservices
- Reusable subsystems included DNS, HTTPS, Cognito, and shared security schemes
- Originated core concepts for the **Adage** open-source framework

Senior Software Engineer

TISTA Science and Technology Corporation
Apr 2019 – Sep 2020

- **CMS Lifeline Project**
- Built infrastructure and logic for CMS/FCC Lifeline Automated Verification System
- Automated all environments with CloudFormation and Jenkins pipelines
- Integrated backend Spark analytics and participated in CMS Technical Review Board preparation

Site Reliability Engineer

Bank of America
Apr 2018 – Mar 2019

- Built long-term HDFS storage backend for Prometheus time series data
- Enabled Grafana to query historical data via custom PromQL-compatible service
- Designed architecture to feed ML-derived metrics into real-time Prometheus alerts

Senior Software Engineer

Uptake
May 2017 – Mar 2018

- Developed and maintained microservices and ingest pipelines
- Supported data science teams through backend infrastructure development

Senior Software Engineer

Finch Computing
Jan 2014 – May 2017

- Machine learning and data processing pipelines for large-scale/streaming data
- Migrated legal search backend from HPAutonomy to SOLR

Data Engineer

Nokia Location and Commerce
Mar 2013 – Jun 2014

- Built analytics pipelines for global vehicle traffic data
- Migrated from in-house Hadoop to AWS EMR
- Re-implemented k-means clustering with Mahout for improved performance and maintainability

Previous Roles

- **Senior Engineer** – Orbitz Worldwide (2010–2013)
- **Lead Java Developer** – Sears Holdings Corporation (2009–2010)
- **Senior Application Developer** – Harpo Productions (2007–2009)
- **Lead Software Engineer** – United Airlines (2002–2007)
- **Senior Software Engineer** – MyPoints.com (1999–2002)
- **Software Engineer** – Motorola (1996–1998)

Open Source Projects

Adage – Config-Driven AWS Deployment Framework
github.com/tstrall/adage

- Modular, parameterized IaC framework for multi-account AWS setups
- Supports runtime promotion, service discovery, environment-aware deployment

Strall.com – Live Demo for Adage
strall.com

- Serverless static site deployed via Adage, using S3, CloudFront, Route 53, and SES
- Demonstrates real-time config resolution, public DNS, HTTPS, and automated publishing

AWS Knowledge Base
github.com/tstrall/aws-knowledge-base

- Markdown-based learning system with detailed notes and certification checklists
- Covers AWS SAA, SAP, Developer Associate, and ML exams

Education

- **DePaul University**, MS, Predictive Analytics (*have not completed all coursework*)
- **University of Illinois at Chicago**, BS, Software Engineering