Ted Strall
Cloud & Data Infrastructure Engineer
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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, SES, Cognito, IAM, EMR)
- **Infrastructure & DevOps:** Terraform, Terragrunt, CloudFormation, Jenkins, GitHub Actions
- **Languages:** Python, Java, SQL, Shell scripting
- **Big Data & Analytics:** Spark, Hadoop, Hive, Kafka, Prometheus, InfluxDB, ElasticSearch, SOLR
- **Other Tools:** Oracle, PostgreSQL, Antlr4, Linux

Experience

Senior Data Engineer – CMS Advanced Provider Screening Project
Sparksoft Corporation
Oct 2024 – Mar 2025
- 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 – CMS Advanced Provider Screening Project
TISTA Science and Technology Corporation
Jan 2023 – Sep 2024
- Automated a complex, large-scale data migration of a 25 TB Oracle database

for CMS - 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 – Office of the CTO – Rapid Prototyping & Proposal Support   TISTA Science and Technology Corporation
Oct 2020 – Dec 2022
- 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 – CMS Lifeline Project   TISTA Science and Technology Corporation
Apr 2019 – Sep 2020
- 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 for external customer data - Supported data science teams through backend infrastructure development

Senior Software Engineer   Finch Computing
Jan 2014 – May 2017
- Developed 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)

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

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Education

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