**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, 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](https://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](https://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](https://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