

## Ted Strall

Cloud & Data Infrastructure Engineer

Lake Zurich, IL

[linkedin.com/in/ted-strall-1057b44](https://www.linkedin.com/in/ted-strall-1057b44) | [strall.com](https://strall.com) | [github.com/tstrall](https://github.com/tstrall)

Email: [ted@strall.com] | Phone: [847-913-7886]

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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.

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## 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
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## 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*

- Successfully automated a complex, large-scale data migration for CMS that was 2 years in the making - 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)
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## 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

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## Education

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