

# Ted Strall

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## Cloud & Data Infrastructure Engineer

Lake Zurich, IL

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## Summary

Cloud & Software Infrastructure Engineer with over 15 years of experience designing and deploying high-performance, production-grade systems across AWS and hybrid environments. Proven expertise in scalable microservices, real-time data pipelines, and infrastructure-as-code. Creator of Adage, an open-source AWS deployment framework. Adept at leading complex migrations, mentoring developers, and driving cloud-native architectures using Python, Java, Kafka, Kubernetes, and CI/CD best practices.

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## Core Skills

**Cloud & Infra:** AWS services (EC2, Lambda, CloudFront, RDS, Cognito, IAM, SageMaker, Comprehend AI), Kubernetes, Docker

**Data Systems:** PostgreSQL, Oracle, Kafka, Prometheus, Elasticsearch, MongoDB

**Languages:** Python, Java, SQL, Shell scripting

**CI/CD & DevOps:** Terraform, Terragrunt, CloudFormation, GitHub Actions, Jenkins, CircleCI

**Architecture:** Microservices architecture, event-driven design

**Software Engineering:** Software development, strong problem-solving skills

**Communication & Detail:** Excellent written and spoken communication skills, attention to detail

**Other:** Strong mentoring skills, cross-team leadership, healthcare & regulated environments

## Experience

### Senior Data Engineer

Sparksoft Corporation

Oct 2024 - Mar 2025

- CMS Advanced Provider Screening Project (same client as TISTA role)
- Led automation of 25 TB Oracle-to-Aurora migration using AWS SCT, DMS, and Python-based orchestration

- 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 (continued under Sparksoft later)
- 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 database management systems and using Erwin and custom scripting

### Senior Software Engineer

TISTA Science and Technology Corporation

Oct 2020 - Dec 2022

- Worked in the Office of the CTO supporting rapid prototyping and proposal development
- Designed scalable AWS infrastructure catalog to streamline multi-environment deployments
- Implemented reusable microservice templates with CI/CD automation for secure, compliant code releases
- Supported Spark and analytics teams with backend data flows and orchestration improvements

### Senior Software Engineer

TISTA Science and Technology Corporation

Apr 2019 - Sep 2020

- Led backend infrastructure development for the CMS Lifeline Project
- Automated infrastructure and pipelines using CloudFormation, Jenkins, and Spark analytics
- Built high-availability deployment strategies across test and production environments

### Site Reliability Engineer

Bank of America

Apr 2018 - Mar 2019

- Built long-term Prometheus + HDFS time-series backend with Kafka ingestion and custom alerting
- Designed metrics processing pipeline to support ML-generated predictions and real-time dashboards

### Senior Software Engineer

Uptake

May 2017 - Mar 2018

- Maintained ingest pipelines and API infrastructure supporting predictive analytics
- Assisted in DevOps transition to containerized microservices and CI/CD tooling

### Additional Roles

- Senior Software Engineer - Finch Computing (Jan 2014 - May 2017)
- Data Engineer - Nokia Location and Commerce (Mar 2013 - Jun 2014)
- Senior Engineer - Orbitz Worldwide (Jan 2010 - Dec 2013)
- Lead Developer - Sears (Jan 2009 - Dec 2009), Harpo (Jan 2007 - Dec 2008), United Airlines (Jan 2002 - Dec 2006), MyPoints (Jan 1999 - Dec 2001), Motorola (Jan 1996 - Dec 1998)

### Open Source Projects

Adage - Config-Driven AWS Deployment Framework

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

Strall.com - Portfolio & Live Demo

- Serverless site deployed via Adage; demonstrates real-time config resolution, CI/CD, and CloudFront setup

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 - Masters Program in Predictive Analytics - (partially completed)
- University of Illinois at Chicago - Bachelor of Science in Software Engineering