Ted Strall

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.

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

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