**Ted Strall** Backend Software Engineer  
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 Lake Zurich, IL, USA

### **Professional Summary**

Backend Software 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 architecture, 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. Strong problem-solving skills, excellent written and spoken communication skills, and attention to detail.

### **Core Skills**

**Cloud & Infrastructure:** AWS (S3, EC2, ECS, EKS, Lambda, API Gateway, CloudFront, RDS, Cognito, IAM, SageMaker, Comprehend), Kubernetes, Docker

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

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

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

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

**Soft Skills:** Strong problem-solving skills, excellent written and spoken communication, attention to detail, mentoring, cross-team leadership

**Industry Focus:** Healthcare, government, and other regulated environments

### **Work Experience**

**Senior Data Engineer** Sparksoft Corporation – Columbia, MD  
 Oct 2024 – Mar 2025

* 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 – Rockville, MD  
 Jan 2023 – Sep 2024

* 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 Erwin and custom scripting

**Senior Software Engineer** TISTA Science and Technology Corporation – Rockville, MD  
 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 – Rockville, MD  
 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 – Chicago, IL  
 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 – Chicago, IL  
 May 2017 – Mar 2018

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

**Senior Software Engineer** Finch Computing – Reston, VA  
 Jan 2014 – May 2017

* Developed pipelines and services for ingesting and transforming large-scale or streaming data
* Rebuilt search platform backend using Apache SOLR for a subscription legal search service

**Data Engineer** HERE – Chicago, IL  
 Mar 2013 – Jun 2014

* Delivered global data products based on analysis of historical vehicle traffic data

**Senior Engineer** Orbitz Worldwide – Chicago, IL  
 Jan 2010 – Dec 2013

* Built Hadoop jobs to process web logs for Greenplum warehouse
* Developed Hive framework for analyzing latency and improving hotel search
* Implemented cross-platform DevOps automation and monitoring

**Lead Developer** Sears – Chicago, IL  
 Jan 2009 – Dec 2009

* Designed and enhanced Apache SOLR-based search platform for Sears.com
* Led full-stack development, infrastructure migration, and performance optimization

**Lead Developer** Harpo – Chicago, IL  
 Jan 2007 – Dec 2008

* Rebuilt Oprah.com as a dynamic, template-driven JSP site backed by Oracle XMLDB
* Migrated legacy content and workflows, delivering under tight and changing requirements

**Senior Software Engineer** United Airlines – Chicago, IL  
 Jan 2002 – Dec 2006

* Delivered business-critical apps for internal ops using Java, PL/SQL, and shell scripting

**Software Engineer** MyPoints – Chicago, IL  
 Jan 1999 – Dec 2001

* Built backend systems for a top 3 e-commerce site delivering over 1M daily personalized views
* Created automated ingestion and internal admin tools

**Software Engineer** Motorola – Chicago, IL  
 Jan 1996 – Dec 1998

* Developed and supported finance apps as part of the Global Business Applications team

### **Open Source Projects**

**Adage – Config-Driven AWS Deployment Framework** Modular, parameterized infrastructure-as-code (IaC) framework for AWS  
 Supports runtime promotion, dynamic service discovery, and environment-aware deployments

**Strall.com – Portfolio & Live Demo** Serverless website deployed using Adage  
 Demonstrates real-time config resolution, CI/CD pipelines, and CloudFront integration

**AWS Knowledge Base** Markdown-based learning system with detailed service notes and certification checklists  
 Covers AWS Certified Solutions Architect – Associate & Professional, Developer Associate, and Machine Learning exams

### **Education**

**DePaul University** Master’s in Predictive Analytics  
 2011 – Present

**University of Illinois at Chicago** Bachelor’s in Software Engineering  
 1992 – 1995