Derek Provance

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Professional Summary

Software Architect with 11+ years building enterprise-scale systems for SaaS and healthcare sectors. Expert in cloud-native architectures, Al-assisted development, and leading cross-functional teams through complex migrations. Proven track record of accelerating delivery by 40-75% while maintaining zero-downtime operations.

Technical Skills

- · Architecture & Design: Serverless Architecture, API Design, Database Design, System Integration, Event-Driven Architecture, Distributed Systems
- · Cloud & Infrastructure: AWS (Lambda, API Gateway, DynamoDB, S3, EC2, ECS, CloudFormation), Docker, Kubernetes, CI/CD Pipelines, Terraform, GitHub Actions
- · Programming: TypeScript, JavaScript, Node.js, Java, SQL, Nest.JS, Spring Boot, Temporal.io
- · Databases & Data: DynamoDB, MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch, Database Migration, Data Modeling, ETL Pipelines
- · Leadership & Methods: Technical Leadership, Team Mentoring, Cross-functional Collaboration, Agile/Scrum, GitHub Flow, SDLC, Technical Documentation
- Al Development Tools: Claude.Al, Claude Code, Cursor, Al-Assisted Development, Code Generation, Architecture Planning

Professional Experience

Software Architect Remote

Mar 2025 - Present Formstack

- · Delivered enterprise HIPAA-compliant healthcare workflow platform, architecting scalable solution using Node.js/TypeScript, Temporal.io, and Redis with Al-assisted development
- · Accelerated enterprise platform delivery by 40% through 8-person team leadership and cross-functional coordination, completing a workflow solution in 3 months across multiple microservice teams
- · Designed workflow architecture with SQL schema and definition system translating visual maps into executable **Temporal.io** workflows
- · Implemented Redis-based transient storage solution, eliminating persistent record storage while maintaining full functionality
- Established daily war rooms and rapid feedback cycles, transforming siloed development into coordinated team execution
- Launched production workflow with 8 design partners and achieved successful beta-to-release transition, implementing critical EHR integration for healthcare data exchange

Principal Engineer Remote Formstack Jan 2022 - Mar 2025

- Architected zero-downtime migration of 1.5M records from DynamoDB to Aurora DB using dual-write pat**tern**, improving performance 47% and reducing errors 70%
- · Accelerated delivery 50% by migrating from DynamoDB to Aurora DB, eliminating 800 lines of custom join logic and enabling native SQL development while leading 5-engineer team modernization of Workflows platform

- Transformed SDLC with GitHub Flow CI/CD and feature flags, scaling from bi-monthly to daily deployments while reducing incidents 92%
- Transformed product stability from least to most stable in company portfolio through comprehensive team mentoring on SQL technologies and engineering best practices
- Improved customer retention by eliminating data loss issues and partnering with stakeholders to balance infrastructure costs with dramatic quality improvements
- Reduced MTTR from hours to seconds through automated feature flag rollbacks and enhanced observability, establishing deployment process as company "gold standard"

Senior Software Developer

Remote

Formstack

Jul 2020 - Jan 2022

- Engineered custom **Lambda** solution for critical **document signing service**, preserving functionality for 1,500+ daily documents and preventing enterprise revenue loss
- Improved system performance by 30-50% and reduced critical **database retrieval** from 90+ to 20 seconds through strategic legacy codebase optimization via **algorithm refinements** and **TypeScript** conversion
- Implemented AWS Step Functions for workflow orchestration, creating transparent data visualization while maintaining HIPAA compliance for medical documents
- Eliminated deployment outages and increased release frequency by leading 4-person Sign team transition from bi-monthly deployments to **zero-downtime** releases using **feature flags**
- Rescued million-dollar client relationship by debugging complex SOAP API integration with Epic healthcare system

Java Backend Developer

Adknowledge

Kansas City, MO

Apr 2016 - Jan 2019

- Developed high-volume ETL pipeline for push notification service processing 1-2 million simultaneous notifications, implementing caching strategies to optimize MySQL performance
- Established **DevOps infrastructure** with **Docker**, **Docker-Compose**, and **CI/CD pipelines** using **Jenkins**, increasing developer efficiency and deployment reliability
- Created API integration services for external data providers with fault tolerance strategies, rate limit management, and Facebook Ads API integration
- Managed AWS infrastructure including EC2 and Elastic Beanstalk deployments, ensuring scalability for high-traffic production systems

Ruby Software Developer

Kansas City, KS

Red Nova Labs

Apr 2015 - Apr 2016

- Developed large-scale Ruby on Rails storage management application, implementing RESTful APIs and MVC architecture patterns
- Implemented test-driven development methodologies while creating efficient data models with PostgreSQL and ActiveRecord ORM

Java Backend Developer

Kansas City, MO

Assurant Employee Benefits

Apr 2014 - Mar 2015

- Developed enterprise-level Java applications for employee benefits management using Java 8, Spring Boot, and Hibernate ORM
- Contributed to Java migration project from Java 1.6 to Java 8, improving system performance and enabling modern development practices
- Collaborated effectively within a team of 15 engineers following Agile methodologies to deliver critical business features

Education

University of Missouri

BS in Computer Science, College of Engineering, 2014