Jeffrey Dilley

Engineering and AI Leader · Hands-on with backend, data, and applied AI

Los Angeles, CA · jeff.dilley@gmail.com · jeffreydilley.com · linkedin.com/in/jeffreydilley

SUMMARY

Engineering and AI leader, building production software since 2002. I've managed 12 engineers across four teams, co-founded a healthcare compliance company where I'm CTO, and helped build four startups that were later acquired. Since 2023 my focus has been AI in production: LLM assistants for operations, monitoring and code review, and coding agents whose work gets independent code review and mutation testing before I trust it. I set technical direction and still write the code, owning systems where the data has to be right from design through production support.

EXPERIENCE

Seneca Shield · CTO & Co-founder

Feb 2024 – Present

senecashield.com

Chart review software for hospice and home health. It checks charts against Medicare documentation and eligibility standards, so agencies catch risk before it becomes a denied claim.

- Hands-on across the whole system: the backend API, report workflows, EHR integration, and deployment and reliability.
- Built AI agent workflows and tools for healthcare compliance, where data security and accuracy come first.
- Built the product with coding agents, backed by my own testing harness and tests that exercise real behavior.

StartEngine · Staff Software Engineer

Jul 2023 – Oct 2026

Backend and data engineering for internal and customer-facing systems.

- Designed and built backend services for equity recordkeeping: cap tables, corporate actions, and distribution processing.
- Built tooling that helps internal teams onboard companies and their existing shareholders.
- Built internal LLM-based assistants for operations workflows, system monitoring and first-pass triage, and code review.
- Implemented account-security features and resolved production issues.

STACK Java, Spring Boot, Python, TypeScript, React, PostgreSQL, Kafka, Redis, AWS, Terraform

Unblocked · Senior Software Engineer

Sep 2022 – Apr 2023

- Built and maintained the platform's backend API in Kotlin and Java, with Spring, GraphQL, SQS workers, Docker, and Flyway migrations.
- Investigated time-critical customer issues with PostgreSQL, Redash, New Relic, and AWS, then turned the findings into safeguards, monitoring, and alerts.
- Owned changes from pull request and code review through QA and production deployment.
- Designed the system behind storefront NFT challenges, making each challenge configurable with its own criteria.

Blockfolio · Senior Software Engineer

Aug 2018 – Aug 2022

Acquired by FTX, Aug 2020

- Designed integrations between Blockfolio's systems and the exchange.
- Extended and maintained a market-data platform that ingested more than a gigabyte of trading data a day from hundreds of exchanges and tens of thousands of trading pairs, in close to real time.
- Built internal admin tools with a React front end and a Java API.
- Interviewed candidates and helped hire engineers across a range of backgrounds and levels.

STACK Java, Spring Boot, SQS workers, PostgreSQL, Elasticsearch, Cassandra, InfluxDB, AWS

Dun & Bradstreet · Senior engineer through engineering manager — Jun 2011 – Aug 2018

Joined D&B Credibility Corp, acquired by Dun & Bradstreet in May 2015

Engineering Manager	Feb 2018 – Aug 2018
Principal Engineer / DevOps Engineer	Dec 2015 – Feb 2018
Lead Java Engineer	Mar 2013 – Dec 2015
Senior Java Engineer	Jun 2011 – Mar 2013

- Engineering manager for 12 engineers across 4 project teams: mentoring, architecture guidance, system design, and career development.
- Coordinated designs and delivery across teams with product managers, stakeholders, and business leaders.
- Helped design and deploy metric-collection systems that gave business owners and engineers the insight to keep the platform running efficiently.
- As principal and lead engineer, made architecture decisions for existing systems, mentored engineers, and held onshore and offshore teams to shared code-quality and testing standards.
- Owned the enterprise e-commerce application for a business credit product and an internal sales tool.

EARLIER EXPERIENCE

ShopNation.com · Java Engineer — Jun 2010 – Jun 2011

Admin tools for the site, on Java, Spring, Hibernate, MySQL, and MongoDB. Meredith Corporation acquired ShopNation in May 2012, after I left.

CyberDefender · Senior Web Developer — Aug 2009 – Feb 2010

Web tooling, site maintenance, and process automation.

Nesting.com · Software Engineer — May 2008 – Aug 2009

Website features in Java, Spring, and Hibernate.

LowerMyBills · Support Engineer, then Java Engineer — Dec 2004 – May 2008

Watched over the core B2B Java system: triaged errors, handled requests from sales and clients, and wrote code. Experian acquired LowerMyBills in May 2005.

California CAD Solutions · Software Developer — Jun 2002 – Dec 2004

Web-based GIS solutions built from client requirements, including specialized reports linked to maps and documents.

INDEPENDENT WORK

StoryArbor · Creator and engineer · In development — storyarbor.com

A native macOS app for private story intelligence. It ingests a manuscript locally, detects chapters, answers questions with citations, and analyzes continuity, with inference running on the Mac. SwiftUI with a Rust core.

Building with agents · Case study — jeffreydilley.com/work/building-with-agents

How I built Seneca Shield and StoryArbor with coding agents, and what made it work.

JeffLLM · Personal project

An experiment harness in Rust for training and learning about language models.

SKILLS

LANGUAGES	Java, Kotlin, Python, TypeScript, SQL
BACKEND AND DATA	Spring Boot, PostgreSQL, Kafka, Redis, Elasticsearch, GraphQL, dbt
CLOUD AND DELIVERY	AWS, Terraform, Docker, Linux, CI/CD
AI	LLM assistants and agent workflows, coding agents with independent review and mutation testing, local model inference, retrieval with citations
AGENT-ASSISTED	Rust, Swift, SwiftUI, React, Metal, CUDA. I build with these through coding agents. I haven't hand-written them for years the way I have Java.