Dan Lewis

Chicago, IL · dan@danflewis.com · danflewis.com · linkedin.com/in/dflewis1 · github.com/DanFLewis

SUMMARY

Lead software engineer building production AI agents, APIs and platforms, with about 13 years of full-stack work across payments, finance, advertising and AI. Software is only as good as its ability to serve the needs of its users.

EXPERIENCE

Lead Software Engineer April 2026 – Present

SalesAi · Chicago, IL

- Designed, built, and owned an AI-powered SMS platform end to end: Pub/Sub processing, LLM context resolution, conversation lifecycle, and TCPA consent/DNC enforcement before any LLM call.
- Engineered the workflow engine and voice-agent runtime behind a multi-tenant AI voice platform; eliminated misdispatched calls, concurrency leaks, and agent guardrail failures.
- Led design and build of the public API exposing AI agents and workflows: API gateway, token exchange, per-credential rate limiting, idempotency, and revocation.
- Architected cross-call contact memory for the voice agent: tenant-scoped pgvector retrieval assembled at call start, adding zero per-turn latency.
- Set technical direction across teams through design reviews and ADRs on the usage-and-entitlements platform, mentoring engineers at varying seniority to self-drive under Shape Up.

Senior Software Engineer April 2025 – April 2026

Meta · Chicago, IL

- Developed RESTful APIs and data pipelines that enabled ad agencies to utilize and publish content creator driven ads at scale, driving $162M in ARR.
- Designed and built ML powered brand classification tool for use by multi-brand retailers, addressing $300M in revenue and performance gains.
- Performed complex client integrations with multiple high end advertisers for $21M in incremental revenue gains.
- Created and led program to find missed integration opportunities in medium-scale clients resulting in a $28M ARR increase.
- Led cross-functional communication initiative which resulted in a 20% increase in collaboration satisfaction between Engineers and Sales.
- Mentored several early-mid career engineers on project scoping, test design, code quality, and non-technical communication.

Senior Software Engineer February 2023 – April 2025

Golub Capital · Chicago, IL

- Created APIs for data queryability, entitlement, and work item tracking, letting non-technical staff self-serve previously ticketed requests.
- Planned, presented, and executed .NET application and database migrations to Azure, cutting physical equipment costs and improving uptime.
- Translated business logic into new processing, accounting, and reporting features resulting in a multi-day reduction in sending statements.
- Modernized major full stack applications, improving performance and mitigating cybersecurity risks.

Software Engineer October 2018 – February 2023

Discover Financial Services · Riverwoods, IL

- Developed APIs integrating ServiceNow with Hazelcast endpoints for automated failover and failback, preventing disruptions to Discover's payment processing system.
- Devised POCs for new applications and rewrites targeting microservices architecture enhancing the efficiency of deployment.
- Oversaw a contracting team executing an application rewrite to ensure adherence to design, quality, stability, and functionality.
- Provided SME support resolving production-impacting payment and settlement issues, ensuring 100% uptime of critical applications.

Software Engineer December 2015 – May 2018

Freelance · Madison, WI

- Designed and operated theatrical control systems for universities, architecture firms, and museums on proprietary platforms under tight deadlines.
- Built a theatre group website that raised ticket sales 23%, and a TwinCAT GUI that flew a live performer.

Software Engineer June 2013 – September 2015

Vision2 Systems · Dallas, TX

- Developed a client-facing full stack web application for payment processing serving nonprofits and churches.
- Implemented Elasticsearch to cut search times and built dashboards used as primary marketing materials.

EDUCATION

University of Wisconsin – Madison Madison, WI

Bachelor of Science in Design & Theatre

SKILLS

AI & LLM: LLM application development, conversational and voice AI agents, prompt engineering and context assembly, agent tool-calling/MCP, LLM guardrails, RAG and vector search (pgvector), embeddings, evals, LiveKit, OpenAI, Gemini, Claude, Meta Llama

Technical: Google Cloud Platform (Cloud Run, Pub/Sub, Cloud Build), Microsoft Azure, Java 21, Spring Boot, C#/.NET, Python, TypeScript, NodeJS, React, Next.js, Terraform, Docker, Kubernetes, Jenkins, Gradle, SQL, MySQL, PostgreSQL, NoSQL, Redis, Elasticsearch, Twilio, Auth0, Datadog, Playwright, Jira

Leadership: Presentation, Project Proposals, Cross-Functional Team Leadership, Prioritization, Requirements Gathering, Agile, Kanban, Shape Up, Client Management, ADRs & Design Review, Code Review at Scale, Mentoring