Jeffrey A. Kayzerman

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Software architect with 14 years designing and building data platforms, AI/RAG systems, and full-stack cloud applications across defense, consumer marketplace, and financial services. Delivered the first production AI system at a defense manufacturer under ITAR/FedRAMP High, and owned architecture for consumer-facing flows serving 17,000 requests per day.

Technical Skills

AI & Data: RAG & Agentic AI, AWS Bedrock, Vector Databases (ChromaDB, AWS Knowledge Base), LLM-as-judge, dbt / MetricFlow, Medallion Architecture, Meltano, ETL/ELT pipelines, PostgreSQL, MongoDB, SQL Server, Power BI

Languages: Python, JavaScript/TypeScript, Java, SQL, NoSQL

Cloud & Infrastructure: AWS (SNS, SQS, S3, Bedrock, Lambda, ECS, EC2, IAM, RDS, DocumentDB, EventBridge, DMS), Docker, Terraform, GitHub Actions, Grafana (Loki, Prometheus, Tempo), OAuth 2.0

Frameworks: Next.js, React, FastAPI, Java Spring Boot

Experience

Marotta Controls, *Parsippany, NJ*
Defense manufacturer subject to ITAR/FedRAMP High compliance
Manager, Systems Architecture | *Oct 2025 – Aug 2026*
Senior Applications Architect | *Jan 2025 – Oct 2025*

- Designed and delivered the company's first production AI system: an LLM search architecture with AWS Bedrock and a Knowledge Base for RAG over unstructured HR documents ("askHR").
- Designed and built the company's data warehouse (PostgreSQL) on a medallion architecture with dbt and 4 ETL/ELT pipelines using AWS DMS, Meltano, and REST/OData sources.
- Designed an LLM search architecture ("askFinance") on top of a dbt MetricFlow semantic layer for structured SQL queries against the warehouse.
- Implemented semantic chunking with Claude, reranking, and LLM-as-judge evaluation across both retrieval paths.
- Architected replacements for 6 legacy pen-and-paper, Excel, and Access processes in Next.js, Python, SQL, NoSQL, and AWS, one of which resulted in a 27% efficiency gain in space valve testing.
- Migrated simulation workloads to a server cluster, recovering over 1,500 hours of engineer wait-time in one month by freeing local machines during runs.
- Eliminated 40 hours per week of manual Excel reporting across a senior finance team via automated Power BI dashboards built on the new warehouse.

Senior Software Engineer | Angi, *New York City, NY | Mar 2022 – Jan 2025*

- Owned the architecture of the Angi front page (Service Request Path), serving 17,000 requests per day.
- Built observability infrastructure across the three pillars using Grafana (Loki, Prometheus, Tempo), instrumenting and investigating tens of thousands of events.
- Shipped features across React/Next.js, Vue/Nuxt.js, TypeScript, and Java microservices.
- Technical lead for 6 full-stack engineers building customer-facing applications.

xOverTime Inc. | *San Francisco, CA → Bloomfield, NJ*
CEO (part-time) | *Nov 2020 – Jul 2025*
Senior Sales, Solutions and Software Engineer | *Oct 2015 – Nov 2020*

- Took over when the founder retired, inheriting a $500K ARR business.
- Architected an environmental reporting platform serving over 200 DuPont sites worldwide.
- Built an automated environmental credit tracking system replacing over 100 manual spreadsheets for Entergy.
- Automated and scheduled complex chemical calculations across 12 sites at Chemours.

Application Developer | Goldman Sachs & Co., Merchant Banking, *New York, NY | Apr 2014 – Oct 2015*
- Partnered with 3 Managing Directors to understand business needs, developing and deploying solutions that automated P&L reporting through a graph database (SecDB, Goldman proprietary) and custom scripting.
- Designed ETL pipelines and data warehouse infrastructure in SQL and Slang (Goldman proprietary).

Application Developer | JP Morgan Chase, Private Bank, *New York, NY | May 2012 – Apr 2014*
- Developed COBOL processing 20+ million transactions per night for the Private Bank OMNITRUST accounting system.

Education

Rensselaer Polytechnic Institute, Troy, NY — B.S. Mechanical Engineering, May 2012

Certificates

Certificate Program in Agentic AI — Johns Hopkins University — Link