

Kristo Baricevic

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Software Engineer

Executive Summary

Music industry founder and operator turned full-stack software engineer with **3+ years of experience building React and Python web platforms for data-heavy, workflow-driven products**. I bring first-hand experience running complex, human-centered production and catalog systems and translate that operational reality into **scalable databases, analytical backends, and clear user interfaces**.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, Java

Backend: Django REST Framework, FastAPI, Node.js, REST APIs

Frontend: React, Next.js, Redux, HTML, CSS, Tailwind

AI / LLM: OpenAI API, LangChain, retrieval augmented generation (RAG)

Data & Storage: PostgreSQL, MongoDB, Redis

DevOps / Infra: Docker, Git, GitHub Actions, Nginx

Experience

CallSine — Fullstack Developer | Philadelphia, PA | Dec 2024–Sept 2025

CallSine is a data-driven web platform built with React/TypeScript and Python that supports complex analytics, workflow automation, and user-facing reporting.

- Refactored Django serializers and eliminated N+1 queries in high-traffic endpoints, **reducing API response times by ~60%** for analytics and reporting views.
- Helped migrate the frontend from Create React App to Next.js, **improving load times by over 50%** through server side rendering and static generation.
- **Built and maintained multi-step AI pipelines** coordinating multiple model calls and tools to support structured, repeatable workflows rather than ad-hoc usage.
- **Designed and evolved PostgreSQL schemas** to support complex querying and aggregation while maintaining performance at scale.

CallSine — Frontend Developer | Philadelphia, PA | May 2024–Dec 2024

- **Standardized state management using Redux Toolkit and TypeScript** across multi-page React flows, improving correctness and maintainability.
- **Worked directly with customers and internal stakeholders** to translate ambiguous requirements into scoped features aligned with real workflows.

Freelance Consultant — E-commerce Solutions Engineer | Jan 2021–Sept 2025

Helped build scripts and services that enable large e-commerce operations for corporate clients (New Balance, Rainbow Department Stores) to maximize warehouse efficiency and minimize downtime.

- Built a buffered sync service between Akeneo and Shopify that handled **more than 10,000 products per day**, reducing sync time from hours to minutes and giving staff reliable updates.
- Introduced queue based inventory updates using Amazon SQS, processing deltas in near real time and **cutting oversell incidents while providing clear logs and metrics** for support teams.
- Designed a fault tolerant synchronization pipeline with tiered retries and buffered database writes that **reduced database I/O by roughly 80 percent** during peak processing windows.

PROJECTS

Balancer — Frontend Lead | React, TypeScript, Python, Django, OpenAI API

Built clinician-facing React interfaces for a RAG-based decision support platform that structured complex case data into clear, comparable views for real-world medical decision making.

- **Designed React interfaces for a RAG-based decision support platform** enabling clinicians to analyze case studies through structured, data-driven views.
- **Collaborated with clinicians and engineers** to refine data presentation and output clarity for real-world decision making.

AI-Enhanced Dream Journal - React, Typescript, Django, FastAPI, Docker, OpenAI API

Designed and implemented a full-stack AI application with PostgreSQL-backed analytics and RAG pipelines to analyze, structure, and surface insights from unstructured user data.

- **Architected PostgreSQL schema and REST APIs** for user data management and analytical querying.
- **Implemented multi-weighted prompt systems and RAG pipelines** for contextual analysis.

Other Work Experience

Big Muddy Records — Founder & GM | St. Louis, MO | Aug 2005–May 2020

Prior leadership experience building and operating complex, people-heavy systems before transitioning fully into software engineering.

- Directed cross-functional teams to deliver releases on schedule and within budget.
- Managed a digital catalog of 500 + assets across retail and streaming platforms, ensuring consistent metadata, pricing, and royalty reporting across all channels.

Education

Tufts University, M.S. Computer Science (expected 2026)

Tufts University, Postbaccalaureate Certificate in CS (2024)

Webster University, B.S., Business Administration (2005)