

Michael Amore

Senior Software Engineer • AI & LLM Applications

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EXPERIENCE

KBB/Autotrader, Irvine, CA — Senior Software Engineer

July 2018 - PRESENT

- Built a generative AI-powered natural language search system on autotrader.com homepage, serving millions of requests per month
- Architected, built, and deployed an end-to-end lead processing system in AWS (SQS, Lambda, DynamoDB) in use on kbb.com and autotrader.com that has processed 1 million+ leads
- Integrated with dozens of internal and external APIs to build performant and resilient real-time systems
- Migrated 4 applications from on-prem infrastructure to AWS
- Created CI/CD pipelines to enforce code quality, prevent regressions, deploy applications, and handle blue/green traffic switching
- Led cross-functional initiatives as the engineering representative on product discovery for Autotrader's private seller platform, shaping scope, feasibility, and technical risk for multi-quarter projects

Dealer.com, Burlington/Dallas — Senior UI Engineer

May 2012 - July 2018

- Built website templates, reusable UI widgets, and backend services powering thousands of dealer websites on the dealer.com platform
- Led hiring efforts as the lead engineer for multiple new teams

PROJECTS

Private LLM + RAG Chat System — AWS, Supabase, Next.js

Deployed a private LLM server on ec2 exposing an OpenAI-compatible API for internal apps. Implemented a RAG pipeline using self hosted Supabase (Postgres + pgvector) for document ingestion, chunking, embedding, and semantic retrieval. Built an authenticated chat website using Next.js and Vercel AI SDK with streaming responses and conversation history.

iOS App Development — AI Photo Editing

PhotoVibe - A voice-driven AI image editing app in SwiftUI and Flux Kontext for image editing. Published several iOS apps, handling App Store submission, ASO basics, and ongoing updates.

SKILLS

Languages: TypeScript, JavaScript, C#/Java, Python, Swift, Bash

Web & Backend: Node.js, Next.js, React, Postgres, Tailwind CSS

Testing: Vitest, Playwright

AI & LLMs: Vercel AI SDK, n8n, Hugging Face, vLLM, RAG with pgvector, LLM API integrations

Cloud & DevOps: AWS (Lambda, EC2, RDS, S3, ElastiCache, CloudWatch), Github Actions, Docker, New Relic, Splunk, PagerDuty

AWARDS

Hackathon winner - KBB Service and Repair Pricing
Demonstrated a service and repair pricing experience, now deployed on kbb.com

Hackathon winner - BotOrNot
Built a bot detection system for dealer.com traffic that reduced Akamai spend by \$50K/month

HOBBIES

I enjoy learning about AI systems, 3D printing, building POC side projects, and watching sports