

Sadiya Bhawania

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I build software that makes AI do the heavy lifting, plus the guardrails for when it doesn't.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C#, SQL

AI / LLM: LangChain, LangSmith, ChromaDB, RAG pipelines, Vertex AI, Document AI, Claude

Cloud / Infra: GCP, AWS, Docker, Redis, Kubernetes, Terraform, CI/CD

Frameworks: React, Node.js, MongoDB, Spring Framework, Django, REST APIs

EXPERIENCE

Sr. Software Engineer | ELB US Inc.

Sept 2025 – May 2026

Agentic AI, Text-to-SQL, RAG, Docker

- Architected an agentic AI Q&A system that interprets natural-language queries and intelligently routes between a text-to-SQL pipeline and a document-based RAG pipeline, serving 150 employees for read and summarization, with an agentic write phase (natural-language task execution) in development for the sales team.
- Built the RAG pipeline end-to-end: semantic intent detection, vector retrieval with ChromaDB, schema-aware SQL generation, and human-approval gates that validate generated SQL before execution, preventing unsafe queries from reaching the database.
- Implemented a query-complexity scoring layer that routes high-complexity queries (above a 65% threshold) to Pro model and simpler ones to base models; containerized the system with Docker and added Redis caching to cut inference cost and latency.
- Eliminated ~20 hours of manual data entry per fortnight for the 2-person AP/finance team by processing 100+ invoices weekly through AI-driven document extraction, replacing typed input with a single-click confirmation flow.

Sr. Software Engineer | HomePulse.ai

Feb 2024 – Sept 2025

Seed-stage proptech startup | MERN, AWS, Docker

- Designed and built a master vendor table that unified vendor records previously siloed inside per-section MongoDB subdocuments (finance, maintenance, insurance, improvements), eliminating cross-section duplication and making vendors queryable as first-class entities for the first time.
- Built a suite of vendor marketplaces on top of that table, insurance, improvement, and maintenance, letting new users filter the vendors homeowners had actually used, a data moat over open-review sites like Yelp. Load-tested against ~100K synthetic records and moved querying server-side with pagination; reached ~150 vendors across 600 users (React + Node.js + MongoDB).
- Architected toward a planned two-sided marketplace: vendors invited to join and earn referrals, with trust signaled by the number of homeowners who had verified using them.
- Integrated TensorLake (Indexify) Document APIs to automate parsing of HTML, PDFs, and structured data, reducing manual data entry by 90% and cutting error rates to near zero across 600+ user profiles.
- Led growth-engineering initiatives (onboarding video scripts, nurture funnels), measured via profile-completion rates and email click-through: 40% faster onboarding, 30% lower user drop-off, and 35% fewer support inquiries.

Software Engineering Intern | Cisco – ThousandEyes

May 2023 – Sept 2023

Java, TypeScript, SQL, gRPC

- Built a real-time Agent Tracking UI (TypeScript + Spring Boot) that gave developers immediate insight into agent status and eliminated manual SQL querying for tracking.
- Delivered a gRPC-based API for agent proxy listing, giving users real-time visibility and control over proxy assignments and enabling efficient troubleshooting.
- Wrote JUnit integration tests achieving 95% coverage, reducing production bugs by ~40% and accelerating release cycles for safer, faster deployments.

Software Engineer | Avalara

Sept 2018 – Dec 2020

.NET Framework, MySQL, Entity Framework

- Designed and implemented an automated tax-form filing system (iTextSharp + SQL) integrating 250+ tax forms and collapsing document-creation time from 2 weeks to 1 day, credited by leadership with ~\$90K in recovered revenue and a significant reduction in customer backlog.
- Streamlined the user experience by merging 8 functionally similar applications into 3, eliminating redundant flows and cutting customer dissatisfaction 30%.
- Automated GST tax-filing processes and built secure APIs for data access with extensive authorization procedures, achieving a 98% reduction in manual entry-checking time and 99% uptime.

EDUCATION

Northeastern University, M.S., Computer Science

Jan 2021 – Dec 2022

Vishwakarma Institute of Technology, B.Tech., Information Technology

2015 – 2018