

PRITAM AWATADE

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SUMMARY

Software Engineer with 1 year of experience (freelance and IBM) shipping production full-stack applications. Built and deployed a RAG research assistant with self-correcting retrieval and a measured evaluation harness, plus an AI coding platform with 4 live paid users. Work in Node.js, TypeScript and Python, from LLM tool-calling and retrieval pipelines to REST APIs, CI/CD, and payments.

TECHNICAL SKILLS

Generative AI: LLMs, RAG, Embeddings, Vector Databases, HyDE, Query Rewriting, Reciprocal Rank Fusion, Reranking, Semantic Chunking, AI Agents, Tool Calling, MCP, Prompt Engineering, Guardrails, Structured Outputs, Voice Agents, Retrieval Evaluation
Frameworks / APIs: LangChain, OpenAI Agents SDK, OpenAI API, Google Gemini API
Databases: Qdrant, Pinecone, PostgreSQL, MongoDB, MySQL, Redis, Prisma, Drizzle ORM
Languages: TypeScript, JavaScript, Python, SQL, C++
Backend / Frontend: Node.js, Express.js, Fastify, tRPC, REST API Design, WebSockets, SSE, MERN Stack, Next.js, React, Zustand, Tailwind CSS, Monaco Editor
DevOps / Testing / Tools: Docker, Git, GitHub Actions, CI/CD, Playwright, Unit & Integration Testing, Razorpay (Payments)

EXPERIENCE

- IBM**
Software Engineer
Mar 2026 – Present
Pune, India
- Developed a Voice AI agent using OpenAI API and LangChain that answers customer queries via RAG, handling 200+ queries/day with a 60% resolution rate and 50s average response time.
 - Integrated agentic QA workflows into CI/CD pipelines with the core engineering team, adding automated regression coverage of 15+ critical flows on every build.
 - Built and maintained full-stack MERN applications with efficient REST APIs, reducing API response time through caching.
- Freelancer**
Full Stack Developer
Apr 2024 – Jan 2026
Remote
- Shipped 6+ production applications (HRMS, billing, portfolios) for 12+ clients, with admin dashboards supporting concurrent live users.
 - Built Node.js and Express backends on MongoDB and MySQL with optimized data models and secure REST and WebSocket APIs.
 - Delivered client portfolios, e-commerce sites, and billing software for small businesses using Next.js, Express, and PostgreSQL.

PROJECTS

- Codegod: DSA Problem Solving Platform**
OpenAI Agents SDK, GPT-4.1, React, JavaScript, Express, Redis, Razorpay
github.com/pritamawatade/codegod | codegod-frontend.vercel.app
- Built and deployed an agentic AI assistant that calculates time and space complexity of submitted solutions and uses LLM tool-calling to recommend questions by skill level; serving 4 live paid users.
 - Built a full-stack DSA practice platform with a Monaco-based editor, playlists, streaks, a Redis-cached leaderboard, and an admin dashboard (React, Zustand, Tailwind CSS).
 - Shipped with CI/CD (lint, type-check, 51 automated tests, build); added INR payments via HMAC-verified Razorpay webhooks and per-request token, cost, and guardrail-hit logging.
- Docwise: Advanced RAG Research Assistant**
LangChain, Qdrant, PostgreSQL, OpenAI, TypeScript
github.com/Pritamawatade/prepIQ | prep-iq-two.vercel.app
- Designed a RAG pipeline that generates query variants (rewriting, step-back prompting, sub-question decomposition, HyDE) and fuses vector, full-text, and SQL retrieval with Reciprocal Rank Fusion and relevance-floored reranking.
 - Implemented CRAG-style self-correcting retrieval: an LLM grades retrieved context 0-10, retries with grader-suggested keywords across up to 3 rounds, and refuses to answer below a hard floor instead of hallucinating.
 - Built source-aware chunking (900-token prose chunks with 150-token overlap; 60-90s media cues) so every answer cites an exact page or timestamp.
 - Wrote a labelled evaluation harness reporting hit-rate and MRR per pipeline stage behind feature flags, so each retrieval technique's contribution is measured, not assumed.

CERTIFICATIONS

Generative & Agentic AI Foundation - IBM (2026)
Docker Essentials for Developers - IBM (2026)

EDUCATION

P.A.H. University
Bachelor of Computer Application (CGPA: 7.53/10)

Jul 2022 – Jun 2025
Maharashtra, India