

Hardik Mahesh Kotangale

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Summary

Full-Stack Software Engineer with hands-on experience in **C#, Python, React, and TypeScript**, building AI-powered applications using **transformer models, prompt engineering, and RAG pipelines**. Comfortable owning features end-to-end and shipping reliable, tested code in fast-moving teams.

Education

Indiana University Bloomington, IN, USA

Master of Science in Computer Science

Aug 2024 – May 2026

GPA: 3.81/4.0

Relevant Coursework: Applied Algorithms, Applied Machine Learning, Computer Vision, Software Engineering

Savitribai Phule Pune University, Pune, India

Bachelor of Engineering in Computer Engineering

Aug 2020 – Jul 2024

GPA: 8.83/10

Experience

Software Engineer, Project 990, Remote

Feb 2026 – Present

- Processed **5,000+ nonprofit documents** using **transformer models (Mistral-7B, Gemma-7B)** to extract, evaluate, and generate NLP-based mission statements comparing output quality across **2 model variants** to surface the strongest signals for LLM-based feature engineering workflows.
- Reduced manual QA effort by defining a **full testing architecture** for a client web application, applying **security-focused prompt engineering** and **LLM-assisted code generation** to surface adversarial inputs and edge cases coordinating a **cross-functional team** to deliver on schedule.

Graduate Research Assistant, Indiana University, Bloomington, IN

Jan 2026 – Present

- Shipped a **cross-platform C# application** across **3+ device configurations** with real-time state synchronization and event-driven architecture, owning the full lifecycle from design through deployment.
- Reduced regression issues by implementing **automated test coverage** and **structured debugging workflows**, validating behavior across device configurations and identifying edge cases before production.

Graduate Teaching Assistant, Indiana University, Bloomington, IN

Aug 2025 – Jan 2026

- Mentored **10+ students** in software development and computer graphics, providing 1:1 feedback on **code quality, debugging, and design**. Guided **multiple AR/MR teams** through the full SDLC using **C# and Unity**, from requirements through testing and documentation.

Junior Software Developer, Oytie Learning IT Training Academy, Pune, India

Jan 2023 – Apr 2023

- Built and shipped a **React + TypeScript LMS serving 50+ users**, leading a **10-member team** end-to-end responsive UI, Firebase real-time backend, authentication, and data sync delivering all features on schedule.
- Engineered **10+ reusable React components** with React Router, cutting future development time for similar UI patterns, and implemented **unit testing and debugging pipelines** to maintain production reliability.

Projects

Nexora React, TypeScript, Django, Celery, Redis, PostgreSQL, pgvector, Docker, Ollama

- Built a **production-grade AI platform end-to-end** handling **multi-step async pipelines** across **4 services** (transcription, analysis, embedding, chat) React TypeScript frontend, Django REST backend, Celery + Redis task queue, containerized with Docker Compose.
- Designed a **RAG chat assistant** over **pgvector similarity search** (k=8 chunks) answering natural language questions over meeting content validated with **integration tests and accuracy checks** ensuring reliable AI-generated responses across varied inputs.

DB2 Workload Simulator *Python, FastAPI, React, TypeScript, WebSocket, SQLite, Docker*

- Shipped a **full-stack observability platform** supporting **concurrent multi-user workloads** React TypeScript dashboard with real-time WebSocket streaming, FastAPI backend, and **p50/p95/avg latency benchmarking** to measure performance under configurable load.
- Reduced manual validation effort by building an **automated data integrity suite** with defect injection and run-to-run comparison designed **RESTful API contracts** with structured validation and maintained full test coverage and documentation across the stack.

Technical Skills

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

Frontend: React.js, HTML5, CSS3, React Router, Bootstrap

Backend & APIs: REST APIs, Django, FastAPI, Spring Boot, GraphQL

AI & LLMs: Transformer Models, RAG Pipelines, Prompt Engineering, Ollama, Claude Code, GitHub Copilot

Cloud & Infra: AWS, Azure, Docker, GitHub Actions, CI/CD

Practices: Unit & Integration Testing, Code Reviews, Agile/Scrum, Debugging

Certifications

AWS Cloud Foundations | AWS Machine Learning Foundations | Cisco Cybersecurity | Oracle PL/SQL