

HEMANG PATEL

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Full Stack Developer with 3+ years of experience building scalable backend systems, APIs, cloud-native applications, and AI-powered solutions using TypeScript, Node.js, Python, PostgreSQL, React, and Docker. Experienced in designing high-performance services, integrating LLM technologies, and delivering production-ready software in Agile environments. Proven ability to collaborate across teams, solve complex technical challenges, and build reliable systems that support business-critical applications. Passionate about leveraging AI and modern software engineering practices to create impactful products.

TECHNICAL SKILLS

- **Frontend**- ReactJS, React Native (Expo), TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, shadcn/ui
- **Backend** : Node.js, Express.js, FastAPI, REST APIs, Python, Java, TypeScript, Microservices Architecture
- **Databases & Search**: PostgreSQL, MySQL, MongoDB, Firebase, Supabase, Elasticsearch
- **Cloud & DevOps**: Docker, CI/CD, Kubernetes, AWS, Azure, GCP, Cloud Deployments, Containerized Applications
- **Tools & Practices**: Git, GitHub, Linux, Agile/Scrum, Debugging, Unit Testing, API Design, Authentication
- **AI & Productivity Tools**: OpenAI APIs, Vector Search Concepts, Cursor AI, Claude, GitHub Copilot, Codex, Prompt Engineering, LLM Applications, AI Observability

SELECTED ACHIEVEMENTS

- Developed and maintained 30+ production APIs.
- Built AI-powered applications leveraging OpenAI and LLM technologies.
- Resolved 130+ production issues across frontend, backend, and database systems.
- Delivered 8+ enterprise-grade applications used by thousands of users.
- Reduced investigation time by 40% through AI-driven observability tooling.

PROFESSIONAL EXPERIENCE

Full Stack Engineer (Co-op) | PopIn - Ontario, Canada

Apr 2025 - Aug 2025

- Designed and implemented 10+ backend APIs using Node.js, TypeScript, and PostgreSQL, supporting real-time web and mobile application workflows.
- Improved database query performance and API response times by 30% through schema optimization and efficient backend architecture.
- Collaborated with cross-functional teams to deliver customer-facing features in Agile sprints, contributing to bi-weekly production releases.
- Built scalable full-stack solutions using React Native and backend services, improving application responsiveness by 25%.
- Identified and resolved 30+ production issues across frontend, backend, and database layers, improving system reliability and user experience.
- Contributed to CI/CD and deployment workflows, helping maintain stable and efficient software delivery pipelines.

Software Engineer

Technicra Data Solutions - Ahmedabad, India

Jan 2021 - Sep 2023

- Developed and maintained 8+ enterprise-grade web applications using React, Node.js, TypeScript, PostgreSQL, and RESTful architecture.
- Designed and implemented 20+ backend APIs supporting workflow automation, recommendation systems, and large-scale business processes.
- Built secure authentication and authorization mechanisms handling thousands of user sessions through token-based access controls.
- Collaborated with developers, QA engineers, and stakeholders to deliver software solutions on schedule while maintaining code quality standards.
- Investigated and resolved 100+ production issues, improving application stability, performance, and customer satisfaction.
- Participated in code reviews, architectural discussions, and Agile development processes to continuously improve engineering practices.

PROJECTS

[AI-Failure-Investigation-System](#) | React, TypeScript, FastAPI, Python, PostgreSQL, Docker, Streamlit, OpenAI APIs

- Developed an AI observability platform for monitoring and analyzing LLM failures in production environments.
- Built 12+ FastAPI services and PostgreSQL pipelines for automated classification, root-cause analysis, and failure investigation workflows.
- Integrated OpenAI models to automate analysis and generate actionable insights from AI system failures.
- Designed scalable backend services and Docker-based deployment workflows to support future platform growth.
- Created real-time monitoring dashboards that reduced investigation time by approximately 40%.

[FitFeast](#) - AI-Powered Meal Planning & Health Tracking Platform | Next.js, React, TypeScript, MongoDB, Tailwind

CSS, NextAuth.js, REST APIs

- Developed a full-stack nutrition platform featuring AI-powered meal planning, user authentication, and personalized recommendations.
- Built 10+ backend APIs and integrated external data sources to deliver real-time nutrition and health insights.
- Optimized database schemas and query performance, reducing response times by 35%.
- Implemented AI-driven automation features that enhanced user engagement and improved overall platform usability.
- Designed data processing pipelines to ingest, classify, and analyze large volumes of AI-generated events for observability and search workflows.

EDUCATION

Ontario Graduate Certificate - Information Technology Solutions

Jan 2024- Sep 2025

The Humber College Institute of Technology & Advanced Learning | GPA:3.9/4.0 | Toronto, Canada

Bachelor of Engineering Computer Engineering

Aug 2018 -Jul 2021

Gujarat Technological University | GPA: 3.8/4.0 | India