

# Om Patel

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## Education

**Northeastern University**, Boston, MA

September 2025 – Present

MPS in Applied AI

Current GPA: 4.0

**Coursework:** Applied Artificial Intelligence, Applied Machine Learning, Natural Language Processing

**Gujarat Technological University**, Ahmedabad, India

September 2020 – May 2024

Bachelor of Engineering in Computer Science

GPA: 7.85/10.0

**Coursework:** Theory of Computations, Design & Analysis of Algorithms, Data Structures & Algorithms

## Skills

**AI & ML:** LLMs, RAG, Prompt Engineering, NLP, HuggingFace, Scikit-Learn, MCP (Model Context Protocol), Embeddings

**Programming:** Python, JavaScript/TypeScript, Java (NPTEL Silver Medal), Node.js, React, Next.js, FastAPI,

**Cloud & Databases:** Docker, AWS (EC2/S3), Vercel, CI/CD, Git/GitHub, Linux, Supabase, MongoDB, MySQL, PostgreSQL, Redis.

**Other:** Team Leadership (16+ Members), Cross-functional Collaboration, Problem Solving, Agile, Figma

## Work Experience

**Way To Web Pvt. Ltd.** *Ahmedabad, India*

January 2024 – May 2025

Software Development Engineer (SDE-1)

- **Team Lead:** Directed a cross-functional team of 16 to deliver full-stack projects for international clients in Hong Kong and Australia.
- Deployed scalable APIs and full-stack applications using Next.js, TypeScript, Docker, and CI/CD on **AWS**.
- Conducted technical trainings that enhanced team productivity and reduced developer onboarding time by 30%.

**ShadCN/UI Open Source Community**

January 2025 – February 2025

Open Source Contributor

- Optimized core components in TypeScript + React + Tailwind v4 and enhanced community documentation.
- Collaborated through PR reviews and prototyping to improve component accessibility and developer experience.

**Sparkbright Engineering** *Ahmedabad, India*

May 2022 – December 2023

Next.js Developer & UI/UX Designer

- Engineered a custom company platform using Next.js as a solo developer, increasing client engagement by 10x.
- Deployed the platform on **AWS** and designed all responsive UX flows and front-end components in Figma.

**AVM Auto** *Ahmedabad, India*

April 2021 – May 2022

WordPress Developer & UI/UX Designer

- Delivered a portfolio website with a custom translation plugin, reaching 50,000+ users in the first month.

## Projects

**Aviation AI Emergency Assistant**

*Harvard Research Project*

- Developing an LLM-based guidance system using RAG to assist pilots during flight emergencies via real-time manuals.
- Designing high-accuracy retrieval pipelines to provide grounded safety instructions in critical decision windows.

**Language Tutor AI**

*Google Cloud AI Catalyst Hackathon*

- Built an interactive tutor using **FastAPI**, **MCP Server**, and **Next.js** on Google Cloud infrastructure.
- Implemented real-time language correction and stateful user sessions for personalized language learning.

**Mental Health Assistant Chatbot**

*Academic Project*

- Developed LLM-powered chatbot for mental health guidance using OpenAI API with multi-turn conversation handling.

## Certifications

**Silver Medalist: Programming in Java**, NPTEL (Top-tier performance in a nationwide examination)

**Data Foundations & Data Analytics Specialist**, Google (Coursera - 2026)

**Machine Learning Specialization**, DeepLearning.AI (In Progress)