

Prateek Mani Tripathi

Full Stack Developer — AI Engineer

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Full Stack (MERN) & AI Developer with expertise in scalable microservices, Generative AI, and AWS. Specialized in Next.js, FastAPI, LangChain with focus on performance optimization and real-time systems.

EDUCATION

TECHNICAL SKILLS

- **Languages:** Python, JavaScript, C++, TypeScript
 - **Frontend:** React.js, Next.js, React Native, HTML5, CSS3, Tailwind CSS
 - **Backend:** Node.js, Express.js, FastAPI, RESTful APIs, Microservices, WebSockets
 - **Databases:** MongoDB, Redis, Vector Databases
 - **AI/ML:** LangChain, LangGraph, RAG, Prompt Engineering, OpenAI API, Gemini API, HuggingFace
 - **Cloud & DevOps:** AWS (EC2, S3, Lambda, IAM, CloudFront, VPC, Route 53), CI/CD, Docker
 - **Tools:** Git, GitHub, Postman, JWT, OAuth, Rate Limiting

PROFESSIONAL EXPERIENCE

- **AI Developer – 30 Days Voice Agents Challenge** *Murf AI — Remote — Aug 2024 – Sep 2024*
 - Engineered real-time AI Voice Chatbot with Murf API, AssemblyAI, Gemini API achieving $\leq 200\text{ms}$ latency via WebSocket streaming
 - Implemented agentic workflows improving user engagement by 30% and reduced bandwidth by 25%

KEY PROJECTS

- **AI Chatbot with Microservices** GitHub
React Native, Node.js, FastAPI, LangChain, MongoDB, JWT
 - Architected polyglot microservices (Auth: Node.js/JWT, AI: Python/FastAPI) reducing coupling by 40%
 - Integrated LangChain RAG pipelines achieving 92% response accuracy with vector store retrieval
 - **SkillExchange Platform** Live | GitHub
Next.js, Node.js, MongoDB, Socket.io, HuggingFace, JWT
 - Developed real-time chat via Socket.io supporting 1,000+ concurrent users with 99.9% uptime
 - Built AI assistant using HuggingFace embeddings for semantic skill matching with JWT auth and rate limiting
 - **Barber Shop Appointment System** Live | GitHub
Next.js, Node.js, MongoDB, NextAuth.js, EmailJS
 - Built booking platform with dynamic slots and OAuth (Google/GitHub) improving conversion by 45%
 - Deployed FAQ chatbot handling 200+ queries, reducing support load by 35%

CERTIFICATIONS

- React Native Specialization by Meta – Coursera | Murf AI Coding Challenge 5