



# Neeraj

Full Stack Developer | Next.js, Node.js & AI Systems

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📍 New Delhi, India 🌐 [Portfolio](#)

## Profiles

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## Summary

Forward-thinking **Full Stack Developer** bridging the gap between scalable web applications and **AI Automation**. Expert in **Next.js 15** and **Node.js**, with deep experience building complex systems like **Mimi** (Canvas API engine) and **Vindex** (RAG-based video search). Currently focused on architecting **AI Agents** and **n8n workflows** to build self-optimizing, intelligent software solutions.

## Projects

**Mimi** 2026-Present  
AI Meme Studio & Social Platform

- **Engineered** a browser-based image editor using the **HTML5 Canvas API** with a custom rendering engine for multi-layer compositing and dynamic text styling.
- **Architected** a "Dual-Content" backend with **Next.js** that efficiently separates ephemeral feed data from permanent user creations to optimize storage.
- **Implemented** a high-performance Masonry Feed using **MongoDB Aggregations** and optimistic UI updates for instant load times.
- **Tech:** *Next.js 15, HTML5 Canvas, TypeScript, Node.js, MongoDB, AWS S3*

**Vindex** 2025-Present  
Semantic Video Search (RAG)

- **Built** a **Retrieval-Augmented Generation (RAG)** engine using **OpenAI Embeddings** to enable natural language search within YouTube video transcripts.
- **Optimized** query performance by implementing a **Vector Database** (Pinecone/Atlas) for high-dimensional similarity search, reducing retrieval latency by 40%.
- **Tech:** *Next.js, Python, OpenAI API, Vector DBs, LangChain*

**SkillSprint** 2025-Present  
Gamified AI Learning Platform

- **Architected** an AI-powered LMS using **Generative AI** to dynamically create personalized, timeline-based learning roadmaps and daily quizzes.
- **Utilized Zustand** for global state management to track daily streaks and real-time progress across a gamified dashboard.
- **Tech:** *Next.js, Gemini AI, Zustand, MongoDB, Node.js*

## Skills

### Languages

C++, Python, C, TypeScript, HTML5, CSS3

### Framework & Libraries

React.js, Next.js, Node.js, Express.js, Mongoose, Tailwind CSS, Zustand, shadcn/ui

### Tools & Platforms

Linux (Arch), Postman, Docker, AWS, Bash Scripting, Vercel, Cloudinary

### Databases

MongoDB, Vector Databases, PostgreSQL, Appwrite, Supabase

### AI & Automation

n8n, AI agents, RAG Pipelines, OpenAI API, Vector Search

## Certifications

**Postman API Fundamentals Student Expert**  
Jan 2026  
Postman  
Certified in API testing, automation, and documentation

**MongoDB Data Developer Basics**  
Jan 2026  
MongoDB University  
Validated skills in NoSQL schema design and aggregation frameworks

## Awards

**DSA**  
LeetCode  
Solved 100+ DSA Problems Over Multiple Platforms(Leetcode, HackerRank, Coding Ninjas etc)  
[LeetCode](#)

**Open Source**  
GitHub  
Active Contributor to Open Source (Maintains "SkillSprint", "Vindex" & "Mimi" repos)  
[GitHub](#)

## Education

**Maharaja Surajmal Institute Of Technology**  
Bachelor of Technology  
Computer Science and Technology  
August 2024 - July 2028

## Languages

English

Hindi

**Scalable Streaming API**

- **Designed** a production-grade **REST API** with **Node.js** handling secure video uploads, nested comments, and playlist management via **Multer** and **Cloudinary**.
- **Engineered** complex **MongoDB Aggregation Pipelines** to generate dynamic "Home Feeds" and user watch history efficiently at scale.
- **Tech:** *Node.js, Express.js, MongoDB, JWT Auth*