

PRAKHAR TIWARI

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EDUCATION

VIT Bhopal University

B.Tech, Computer Science Engineering

CGPA: 8.05 / 10

Expected Aug 2026

Technical Skills

Languages: Java, SQL, HTML, CSS, JavaScript

Frontend: React.js, TailwindCSS, Redux toolkit

Backend: Node.js, Express.js, REST APIs, Prisma

Databases: MySQL, MongoDB, MongoDB Atlas Cloud , PostgreSQL

Cloud & DevOps: AWS (EC2 , S3 , IAM) , Docker , CI/CD using GitHub Actions

AI / Generative AI: Google Gemini API , Prompt Engineering , AI API Integration , RAG

Developer Tools: Git, GitHub, VSCode

PROJECTS

SkillsSprint | MERN, Google Gemini AI, Razorpay, Cloudinary, Docker, AWS (EC2), GitHub Actions

Github

- Built a **GenAI-powered** semantic search using Google Gemini to enable intent-based course discovery, improving user experience.
- Designed a secure, scalable **MVC** backend with **JWT (httpOnly cookies)** and Google OAuth to support multi-role workflows.
- Implemented global payments via **Razorpay** and **CDN**-optimized media delivery with Cloudinary for fast and reliable content access.
- Containerized and deployed the platform on **AWS EC2** with **Docker + GitHub Actions CI/CD**, enabling automated testing and zero-downtime production releases.

TeamSync | React.js, Node.js, PostgreSQL, Google Gemini AI, Inngest, Prisma, Neon, Clerk

Github

- Engineered a **GenAI task-orchestration** system using **Google Gemini** to convert free-text project descriptions into structured workflows.
- Integrated **Clerk OAuth/JWT** and **webhook**-based sync to keep users, organizations, and permissions consistent across the system.
- Developed an **event-driven** automation pipelines using **Inngest** for reminders, deadline tracking, and workflow execution.
- Implemented a multi-tenant architecture with RBAC, Prisma, and Neon PostgreSQL to support secure, isolated workspaces.

Talkative | MERN, Socket.IO, Redis, WebRTC, Groq (LLaMA-3), Cloudinary, Web Crypto API

Github

- Architected a horizontally scalable **WebSocket** system using **Redis Pub/Sub + Socket.IO Adapter**, designed to support 1,000+ concurrent users across multiple server instances.
- Developed a true **End-to-End Encryption (RSA + AES-GCM)**, ensuring the server and database only handle ciphertext.
- Implemented real-time **LLM pipelines** using Groq (LLaMA-3) for **AI-powered chat** while preserving **end-to-end encryption**.
- Enabled **WebRTC** signaling over WebSockets for peer-to-peer audio/video calls, ensuring **low-latency** communication across distributed servers and Cloudinary CDN-based media delivery.

CERTIFICATIONS

AWS Cloud Practitioner

Ethnus (AWS Partner) — Jan 2025 – Apr 2025 — Credential ID: G62KDP2T

MERN Full Stack Developer Certification

Ethnus — Jan 2025 – Apr 2025 — Credential ID: X53XC2TH

DevOps Foundations: Continuous Delivery & Continuous Integration

LinkedIn Learning (CompTIA CEU aligned) — Dec 2025

Docker for Developers

LinkedIn Learning — Dec 2025

EXTRA-CURRICULAR & CO-CURRICULAR ACTIVITIES

- **AI-Powered Application Development:** Integrated Google Gemini AI into multiple applications for intelligent task generation, product search, and analytics — gaining real experience with modern AI APIs.

- **Competitive Programming DSA Practice:** Actively practice Data Structures Algorithms (Java), solving problems on arrays, hashing, sliding window, greedy, and binary search to build strong problem-solving ability.