

Kirtan Agrawal

+91-6263118866 | kirtanagrawal22@gmail.com

[Linkden](#) | [Github](#) | [Leetcode](#)

EDUCATION

Vellore Institute of Technology, Bhopal, MP

October 2022–Present

B.Tech in Computer Science and Engineering with spec. In Cloud Computing & Automation - 8.58 CGPA

TECHNICAL SKILLS

Web Development: Node.js, Express, React, Next.js, Tailwind, JWT, MySQL, PostgreSQL, MongoDB, Prisma, Java

DevOps & Infrastructure: Docker, Kubernetes, AWS, DigitalOcean, Nginx, GitHub Actions, Grafana, Prometheus

PROJECTS

NoCode AI – No developer needed

Jan 2025 – February 2025

Tech Stack: TypeScript, JavaScript, WebSocket, Claude LLM - Web Development

- AI-Powered Website Generator - Built a React/Node.js platform that auto-generates complete websites using the Claude LLM API, reducing development time from hours to minutes per project.
- Containerized Deployment - Dockerized the application with multi-stage builds, cutting image size by 40% and enabling seamless Kubernetes cluster deployments.
- Scalable Cloud Architecture - Deployed on Kubernetes with auto-scaling to handle 50+ concurrent requests, maintaining 99.9% uptime during traffic spikes.
- Prompt Engineering Optimization - Fine-tuned LLM prompts to achieve 92% accuracy in generating production-ready code from natural language inputs.

AutoNext – Automated Next.js Web Application

May 2025 - June 2025

Tech Stack: Next.js, CI/CD, Docker, AWS, GitHub Actions - DevOps.

- Automated CI/CD Pipeline – Implemented GitHub Actions workflows for Next.js to automate testing, builds, and deployments, reducing errors by 90% and accelerating releases.
- Dockerized AWS Deployment - Containerized with Docker, executed with AWS EC2, and configured Nginx for HTTPS & load balancing, improving scalability and security.
- Zero-Downtime Updates - Utilized auto-rollback and health checks in CI/CD, ensuring 99.9% uptime during deployments.
- Infrastructure as Code (IaC) - Managed infrastructure via YAML workflows with integrated monitoring, boosting reliability and maintainability.

SketchTogether – Draw & ideate as a team

June 2025 - Ongoing

Tech Stack: TypeScript, Socket.io, JavaScript, Tailwind CSS, Convex, Docker, Kubernetes -Web Development

- Real-Time Collaboration - Constructed an interactive whiteboard using React, Node.js & WebSocket, supporting 50+ concurrent users with <500ms latency.
- Secure Authentication - Integrated for user auth with Firestore real-time database, handling 100+ updates/sec.
- Performance Optimization - Achieved 60% faster load times using delta-sync and Indexed DB caching.
- Scalable Infrastructure - Activated on Kubernetes, serving 10K+ MAUs with 30% cost reduction via auto-scaling

EXTRACURRICULAR ACTIVITIES

Achievements

- 1st Place in Ideathon'24 | Blockchain Club, VIT Bhopal
Secured top rank among 100+ teams for building a blockchain-based solution.

Experience

Event Management Member | Cloud Zone Club, VIT Bhopal

- Designed and executed promotional materials (posters, IDs, digital assets) using Figma/Adobe Suite, ensuring brand consistency for 5+ events with 200+ participants.
- Collaborated with core teams to develop event branding strategies, boosting visibility and engagement across social media and on-ground promotions.
- Managed design workflows under tight deadlines, supporting seamless event execution and attendee experience.