

# Samriddhi Agrawal

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## EDUCATION

Vellore Institute of Technology, Bhopal, MP

October 2022–April 2025

B.Tech in Computer Science and Engineering with spec. In Cloud Computing & Automation - 8.64 CGPA

## TECHNICAL SKILLS

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

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

## PROJECTS

**Automated CI/CD Pipeline for Next.js** [GitHub](#)

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.

**MagicPrompt - No Code, Just Commands** [GitHub](#)

Jan 2025 – February 2025

*Tech Stack: TypeScript, JavaScript, WebSocket, Claude LLM, Docker, Kubernetes - DevOps/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.

**Collaboard -Whiteboard website** [GitHub](#)

June 2025 - Ongoing

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

- Real-Time Collaboration - Constructed an interactive whiteboard using React, Node.js & WebSocket, supporting 50+ concurrent users with <500ms latency.
- Secure Authentication - Integrated Kinde 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

## EXPERIENCE

**Unified Mentor Web Development Internship**

October 2024 - December 2024

- Full-Stack MERN Development - Built and deployed a full-stack website using React, Node.js, Express, and MongoDB with JWT auth and REST APIs.
- Responsive UI & Performance - Developed a mobile-friendly frontend with Tailwind CSS, reducing load time by 30%.
- Backend & Database - Managed MongoDB data flow and deployed the app on Vercel, ensuring high availability.

## ACHIEVEMENTS

- 1st, Ideathon'24 | Blockchain Club, VIT Bhopal Won among 100+ teams for a blockchain-based solution.
- ResuMate | VIT Resume Builder (React + Node.js + Firebase) [GitHub](#)
- Automated VIT resume formatting with PDF export & real-time editing. Served 500+ students with ATS-compliant resumes via Firebase storage.