

AJAY JAIN

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Education

Indian Institute of Information Technology, Vadodara

Bachelor of Technology in Computer Science and Engineering

Dec 2022 – May 2026(Expected)

Technical Skills

Languages: JavaScript, TypeScript, Python, C/C++, SQL

Frameworks/Libraries: React.js, Next.js, Express.js, TailwindCSS, Shadcn UI, Zod, Socket.IO

DevOps/Tools: Git/GitHub, Docker, NGINX, AWS (S3, EC2, ECS), Redis, RabbitMQ, Postman, Terraform, CI/CD

Databases/ORMs: PostgreSQL, MongoDB, MySQL, Prisma ORM

APIs/AI Tools: Gemini AI, Deepgram, Edge TTS, Remotion, Shopify API, Clerk

CS Fundamentals: DSA(400+ problems on LeetCode), OS, OOPS, DBMS, Computer Networks

Experience

Machine Vision Direct | Full Stack Software Engineer

Aug 2024 – Present

- Led the development and deployment of a production-grade web application enabling internal teams to manage **1000+ inventory SKUs**. Built with Express.js, React.js, PostgreSQL, and Nginx.
- Designed a **multi-level relational database** and integrated sync with **Shopify** and **WordPress**, improving data consistency and cutting manual data entry.
- Automated generation of product visuals with embedded technical specs using **Sharp** and **Jimp**, streamlining content workflows and reducing manual image editing time by 100%.

Projects

InkFlow | Next.js 15, Vitest, Terraform, Docker, Clerk, RabbitMQ, GitHub Actions | 🌐 🔗

- Developed a **production-ready blogging platform** using Next.js 15, PostgreSQL, and Prisma ORM for scalable content management, secured via Clerk authentication.
- **Automated** Azure infrastructure deployment with **Terraform** and **Docker**, achieving **consistent multi-environment deployments** and **sub-2 minute container spin-up times**.
- Implemented an asynchronous notification system using **RabbitMQ** and a robust **CI/CD pipeline** using **GitHub Actions** – automating builds, linting, and running **15+ Vitest tests** to ensure code quality and deployment reliability.

ReelsStack | Next.js, Drizzle ORM, Gemini AI, Edge TTS, Deepgram, Remotion, GitHub Actions | 🌐 🔗

- Developed a full-stack AI platform for short video generation, automating a **6-stage pipeline** (script, images, voiceover, captions, rendering, download) with average delivery under **2 minutes**.
- Integrated **Gemini AI**, **Pollinations.ai (Flux)**, **Edge TTS**, and **Deepgram** for multimodal generation; users can customize **styles, voices, durations, and caption effects**.
- Engineered a fast, **cloud-based rendering pipeline** using **Remotion** and **GitHub Actions**, delivering videos in under **90 seconds** on average; powered by Next.js, Drizzle ORM, Neon DB, and Clerk.

Flash Deploy | Express.js, Docker, AWS ECS Fargate, S3, GitHub OAuth2 | 🌐 🔗

- Designed and built **FlashDeploy**, a full-stack platform providing one-click, **automated deployments** for React/Vite frontend projects from GitHub, with an average deployment time under **80 seconds**.
- Implemented a **scalable architecture** leveraging **AWS ECS Fargate** for containerized builds and **Amazon S3** for static asset storage, supporting custom subdomain routing.
- Created a **secure authentication system** using **GitHub OAuth2** and integrated **real-time build status updates** for enhanced user experience and transparency.

Positions of Responsibility

Joint Secretary | IIITV Coding Club

Aug 2023 – Aug 2024

- Organized **3+ competitive programming contests** for **350+ participants**, overseeing the entire process from **problem framing** to comprehensive **testing**, ensuring **seamless execution**; mentored 30+ students in DSA/CP during 2-month 'Winter Of Code'.