

Aryan Patel

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Summary

Full-stack developer with experience building scalable, multilingual platforms using Next.js, Node.js, and MongoDB. Proven success in DevOps, cloud deployments, and AI-integrated systems. Finalist at SIH 2024.

Skills

Frontend React.js, Next.js	Backend Node.js, PostgreSQL, MongoDB
Cloud AWS, Cloudflare	Languages JavaScript, TypeScript, C++
DevOps Docker, GitHub Actions, CI/CD	Tools Git, Postman, Prisma

Experience

Language Technologies Research Center, IIIT Hyderabad

Software Engineer (Full Stack)

May 2025 – Present

- Leading full-stack development for **BandhuCare**, a multilingual post-medication support platform for patients, developed in collaboration with **CMC Vellore**.
- Architected a multi-tenant backend using MongoDB to securely isolate hospital data across independent databases.
- Built scalable RESTful APIs in Node.js (Express), processing over 10,000 requests per week.
- Integrated fine-tuned speech-to-text models for Indian languages, achieving over 85% transcription accuracy.
- Developed the admin dashboard in Next.js and collaborated with Flutter developers to ensure mobile accessibility.
- Enhanced backend performance by 40% through Redis caching and architectural optimization.

Covrize, Ahmedabad

Full-Stack Developer Intern

May 2024 – May 2025

- Built a full-stack app with Next.js and Node.js, optimizing frontend responsiveness and backend throughput.
- Implemented SSR/ISR to boost SEO and minimize page load time.
- Improved PostgreSQL performance by 30% through query optimization.
- Set up automated CI/CD using Docker and GitHub Actions.
- Deployed scalable infrastructure on AWS EC2 and S3, reducing deployment cycles by 40%.

Education

Charusat University

B.Tech in Computer Science & Engineering

Oct 2021 – Apr 2025

GPA: 8.99/10

- Certifications
- MongoDB University – Node.js Learning Path
 - AWS Educate – Getting Started with Compute
 - Docker Containerization for Modern Development

Achievements

- Finalist – Smart India Hackathon 2024
- Ranked among the top 5 teams (out of 500+) in the MIC problem statement category.
 - Developed an AI-backed solution for the Ministry of Education’s Innovation Cell (MIC).

Projects

- CallsConnectAI – AI-Powered Call Center
- Aug 2024 – May 2025
- Built a multilingual call center using Speech-to-Text and LLMs; reduced operational costs by 30%.
 - Launched MVP for complaint registration and automated follow-ups, increasing efficiency by 40%.
 - Migrated platform to microservices for improved deployment agility and scalability.

- Pixel Pen – Blogging Platform
- May 2024 – Aug 2024
- Created a dynamic SEO-focused blogging site using Next.js and Prisma.
 - Integrated AWS S3 for image storage; reduced retrieval time by 20%.
 - Deployed on AWS with Cloudflare DNS; tested for peak-hour responsiveness (25% improvement).