

# Aryan Patel

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## Summary

Full-stack developer with experience building scalable, multilingual platforms using Next.js, React.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

**Cloud** AWS, Cloudflare

**DevOps** Docker, GitHub Actions, CI/CD

**Backend** Node.js, PostgreSQL, MongoDB

**Languages** JavaScript, TypeScript, C++

**Tools** Git, Postman, Prisma

## Experience

### Language Technologies Research Center, IIIT Hyderabad

May 2025 – Present

#### Software Engineer (Full Stack)

- 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), Used Redis Caching to optimise the backend performance by 40%
- 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.

### Covrize, Ahmedabad

May 2024 – May 2025

#### Full-Stack Developer Intern

- 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.
- Deployed scalable infrastructure on AWS EC2 and S3, reducing deployment cycles by 40%.

## Education

### Charusat University

Oct 2021 – Apr 2025

#### B.Tech in Computer Science & Engineering

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).

### Open-Source Contributor – MedusaJS (Shopify Alternative)

- Contributed to the core **MedusaJS** repository ([PR #13521](#)); merged into main branch.
- Fixed UI inconsistency by replacing native <select> elements in **CountrySelect** and **ProvinceSelect** components with **Medusa UI's Select** component.
- Improved dashboard accessibility and design consistency across the admin panel.

## 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%.
- Integrated **LiveKit** to enable real-time, scalable voice communication and concurrent multi-call handling.
- **Demo Video:** [youtube/demo-video](#) — **Pitch Video:** [youtube/pitch-video](#)

### Sharavan AI – Multilingual Meeting Transcription Assistant

May 2024 – Aug 2024

- Implemented real-time transcription pipeline supporting English, Hindi, and regional dialects.
- Optimized ASR performance and reduced transcription latency by 35% through streaming and batching.
- Designed modular APIs for seamless integration into healthcare and enterprise communication tools.
- **Live Website:** [shrawanai](#)