Akshat Barve

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EDUCATION

- **VIT Bhopal University** — **Bhopal, MP**
  B.Tech. in Computer Science Engineering (Cloud Computing and Automation) — **Sep 2022 – Present**
  CGPA – 8.85
- **Class XII – CBSE** — **Indore, MP**
  Shri Bal Vinay Mandir, 92% — **Jul 2022**

PROJECTS

PrepTrack | React.js, Node.js, Express, MongoDB, OpenAI API — **Aug 2025 – Oct 2025**

- Architected Next.js frontend with server components to reduce client bundle and improve TTFB by 40%, resulting in faster page loads and smoother user experience.
- Integrated Supabase for authentication and real-time storage, enabling consistent user sessions and handling 1k+ user sessions during tests.
- Built AI feedback using LLM inference to auto-evaluate interviews and generate structured reports in under 5s.
- Added Daily.co WebRTC for live video interviews, ensuring seamless performance and supporting 100+ concurrent interview sessions.

DoConvo | Next.js, TypeScript, Tailwind CSS, OpenAI API, AWS — **Feb 2024 – May 2024**

- Engineered a secure document chat platform with AES-256 encryption; handled 100+ files with zero data breaches.
- Implemented WebSocket-powered real-time messaging, reducing message delivery time by 35% in internal testing.
- Integrated OpenAI model for summaries and chat responses, improving task completion time by 2× for 80% of users.
- Designed a responsive UI using Tailwind CSS, achieving 95% Lighthouse scores in performance and accessibility.
- Deployed scalable infrastructure using AWS EC2 and S3, supporting 500+ concurrent users in load testing.

Blood Bank Management System | AWS EC2, RDS, MySQL, PHP — **Aug 2023 – Oct 2023**

- Developed a cloud-based blood bank platform that can manage 500+ donor records with full CRUD functionality.
- Optimized MySQL operations via AWS RDS, reducing query latency by 40% and maintaining 99.9% uptime.
- Streamlined UI workflows using HTML, CSS, and JS, improving form submission accuracy by 30% during trials.
- Reduced hosting costs by 30% using EC2 reserved instances and auto-scaling strategies.

TECHNICAL SKILLS

- **Languages**: Java, Python, MySQL
- **Web & Frameworks**: Spring Boot, Hibernate, JPA, RESTful Web Services
- **Cloud Platforms**: AWS, Google Cloud
- **Developer Tools**: Git, Linux OS, Maven, Postman

CERTIFICATIONS

- AWS Academy Graduate - AWS Academy Cloud Architecting — **Apr 2025**
- IBM DevOps Fundamentals — **Mar 2025**
- Object Oriented Programming in Java (Coursera) — **Jun 2025**
- Fundamentals of Cloud Computing (Coursera) — **Jun 2025**