

Akshat Barve

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EDUCATION

- **VIT Bhopal University** Bhopal, MP
B.Tech. in Computer Science Engineering (Cloud Computing & Automation) Sep 2022 – Present
CGPA – 8.83
- **Class XII – CBSE** Indore, MP
Shri Bal Vinay Mandir, 92% Jul 2022

PROJECTS

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

- Engineered a secure chat platform with PDF upload/download and 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 API for AI-generated 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, AWS RDS, MySQL PHP* Aug 2023 - Oct 2023

- Developed a cloud-based blood bank platform that can manage 500+ donor records with full CRUD and access control functionality.
- Optimized MySQL operations via AWS RDS and EC2, 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.

Flight Management System | *Python, Pandas, NumPy* Jan 2022

- Built a modular flight record system processing 100+ entries with CSV input/output.
- Accelerated data processing by 40% using vectorized operations in Pandas and NumPy.
- Refactored codebase to reduce complexity by 25%, preparing for potential API or GUI integration.

TECHNICAL SKILLS

Languages: Java, Python, MySQL, HTML, CSS

Web & Frameworks: Spring Boot, Hibernate, JPA, RESTful Web Services

Cloud Platforms: Amazon Web Services, Google Cloud Platform

Developer Tools: Git, Linux, VS Code, IntelliJ, Maven, Postman

CERTIFICATIONS

- **Object Oriented Programming in Java (Coursera)** Jul 2023
- **Fundamentals of Cloud Computing (Coursera)** Jun 2023