Ashutosh Patro

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ABOUT ME

B.Tech Computer Science student at VIT Bhopal with experience in software development across healthcare, education, and DevOps. Technical skills include full-stack development with responsive frontend and backend systems, cloud technologies, and AI solutions, with active open-source contributions.

EDUCATION

Vellore Institute of Technology, Bhopal   **Madhya Pradesh, India**
- B.Tech - Computer Science and Engineering - **CGPA: 7.94**   **Oct 2022 – Oct 2026**
- **Specialization:** Computer science CORE
- **Coursework:** Operating Systems, Computer Networks, Database Management Systems (DBMS), Theory of Computation (TOC), Data Structures and Algorithms, Machine Learning ,Amazon cloud practitioner

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, TypeScript, Java, HTML5, CSS3, SQL
- **Frameworks:** React.js, Next.js, Express.js, Node.js, Tailwind CSS
- **Databases & ORM:** MongoDB, PostgreSQL, Prisma ORM
- **DevOps & Cloud:** Docker, Jenkins, AWS EC2, Prometheus, Grafana, CI/CD Pipelines
- **Tools & Platforms:** Git, GitHub, Cloudinary, Stripe API, GitHub Actions

PROJECTS AND EXPERIENCE

Auto Infra Dashboard - DevOps Monitoring Platform   [GitHub Link]
- Built real-time DevOps dashboard for AWS EC2 monitoring with 99.8% uptime
- Configured Jenkins CI/CD pipelines with automated testing, reducing deployment failures by 80%
- Deployed Docker containers with efficient configurations, reducing resource usage by 30%
- Integrated Prometheus Grafana and c-ADVISOR for system metrics monitoring across 5 Container
- **Technologies:** Next.js, Node.js, Docker, Jenkins, AWS EC2, Prometheus, Grafana, GitHub Actions

MEDICOHUB AI - Healthcare Management Platform   [GitHub Link]
- Developed healthcare platform with AI symptom analysis achieving 85% accuracy
- Designed secure medical records system with Cloudinary encryption and video consultations, reducing record access time by 60%
- Created patient-doctor communication system with automated report generation, improving workflow efficiency by 35%.
- Optimized Prisma ORM queries and schema design, improving database response times by 50%
- **Technologies:** Next.js, TypeScript, Tailwind CSS, PostgreSQL, Prisma ORM, RESTful APIs

SIKSHA E-Learning Management System   [GitHub Link]
- Architected MERN stack platform supporting 20+ instructors and 100+ students
- Integrated video streaming using Cloudinary with 99% uptime, increasing user engagement by 40%
- Implemented seamless Stripe payment processing with JWT authentication, achieving 99.5% payment success rate.
- Implemented React Hook Form for form handling and RTK Query for data fetching and API management, improving API response times by 20
- **Technologies:** MongoDB, Express.js, React.js, Node.js, Stripe API, Cloudinary, JWT Authentication

CERTIFICATIONS

- **Cloud Computing** - *NPTEL*
- **MongoDB MERN Stack Certificate** - *Mind Luster*
- **DevOps Fundamentals** - *IBM*

ACHIEVEMENTS

- **HACKTOBERFEST 2024 Contribution:** Delivered 4 accepted pull requests to open-source projects on GitHub.
- **Data Structures and Algorithms:** Tackled over 300 problems on LeetCode and GFG.

Languages and Interests

Languages: English | Hindi | Odia
Hobbies: Football | Badminton | Gaming