MAHESH KUMAR JENA

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PROFESSIONAL SUMMARY: A Curious Full Stack Developer with expertise in MERN stack, API design, cloud deployment, and performance optimization. Passionate about building scalable, secure, and user-friendly applications. Adept at designing RESTful & GraphQL APIs, implementing CI/CD pipelines, and optimizing frontend performance.

EDUCATION

Institute of Technical Education and Research   Bhubaneswar ,India

**Bachelor of Technology in Computer Science Engineering;
CGPA:7.20**   September 2023 - September 2027

SKILLS SUMMARY

- **Languages:** JavaScript, TypeScript, Python, Java, SQL, GraphQL
- **Frontend:** Next.js, React.js, Redux, Tailwind CSS, Framer Motion
- **Backend:** Node.js, Express.js, Django, Prisma, REST APIs, GraphQL
- **Databases:** MongoDB, MySQL, PostgreSQL, Redis
- **Tools & Platforms:** Docker, Kubernetes, AWS, Vercel, Render, Jenkins, Postman, Lighthouse, Jest
- **Concepts:** Scalability, Microservices & Monoliths, Authentication (JWT, OAuth, RBAC), API Security, Performance Optimization, CI/CD Pipelines

WORK EXPERIENCE

Freelance Full Stack Developer | Personal Projects [August 2024 - current]

- Developed and deployed scalable web applications using MERN stack, reducing API response time by 30%.
- Designed responsive UIs with Next.js and React, optimizing rendering and enhancing UX across devices.
- Developed RESTful & GraphQL APIs, optimized queries, and integrated third-party services.

Key Challenges Solved:

- **Performance Optimization**: Optimized state management (Redux, Context API), queries, and caching (Redis).
- **Real-time Features**: Implemented WebSockets (Socket.IO) for instant updates and optimized API calls for speed.
- **Authentication Security:** Implemented authentication & security mechanisms (JWT, OAuth, RBAC), ensuring 99.9% uptime.

Projects:

1. **JM-Parts (View project)** - Optimized inventory management and order tracking for a vehicle parts company (Next.js, Express, MongoDB).
- **Eco-Ride Virid (View Project)** - A carpooling platform with real-time ride updates and mapping API (Next.js, Express, MongoDB).

COURSES AND LEARNINGS

- Web Development | Udemy | April 2023 - February 2024
- Data Structures and Algorithms | YouTube | 2024 - Current
- Operating Systems | YouTube | 2025
- Computer Networking | YouTube | 2025
- Databases and Management | YouTube | 2024 - Current