Yogendra Singh Rathod

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Professional Summary

Full Stack Developer specializing in MERN stack (MongoDB, Express.js, React.js, Node.js) with expertise in API design and implementation, backend development, and database management. Skilled in Java, Python, and JavaScript with hands-on experience in containerization using Docker and version control with Git.

Education

Vellore Institute of Technology, Bhopal   **Sep 2022 – Jun 2026 (Expected)**
Bachelor of Technology, Computer Science and Engineering   **CGPA: 8.62/10**

Saint John's School, Rajasthan   **Apr 2020 – Apr 2021**
12th CBSE Board   **Percentage: 73/100**

Saint John's School, Rajasthan   **Apr 2018 – Apr 2019**
10th CBSE Board   **Percentage: 80/100**

Relevant Coursework: Object-Oriented Programming, Database Management Systems, Data Structures and Algorithms, Operating Systems, Computer Networks, Software Testing, System Design

Research Interests: API Design & Architecture, Backend Development, Full-Stack MERN Development, API Integration, Database Management

Technical Skills

Programming Languages: Java, Python, JavaScript, TypeScript, Ruby, HTML, CSS

Frontend Technologies: React.js, Redux, Tailwind CSS, Responsive Design

Backend Technologies: Node.js, Express.js, Ruby on Rails, RESTful APIs, MVC Architecture, FastAPI, Molecular.js

Databases: MongoDB, SQL, PostgreSQL

DevOps & Tools: Docker, Git, GitHub, GitHub Actions, JWT Authentication, Bcrypt, CI/CD, Agile, Version Control, WebRTC, Socket.IO

Additional Interests: AI, Machine Learning, Workflow Automation, Performance Optimization

Projects

Edtech Platform Backend   **Jan 2025**
Node.js, Express.js, MongoDB, Docker, MVC Architecture, JWT Authentication

- **Engineered** a secure backend system using Node.js and Express.js, implementing MVC architecture to increase scalability by 40%.
- **Implemented** JWT-based authentication and role-based access control, reducing security vulnerabilities by 65%.
- **Designed** and optimized 12+ RESTful API endpoints for user management, reducing client-server latency by 35%.
- **Integrated** bcrypt for password hashing and ngrok for secure API testing, enhancing data protection for 500+ potential users.

VideoCon - Real-time Video Communication Application   **June 2024**
Node.js, React.js, WebRTC, Socket.IO, Express.js, MongoDB, Docker, MVC Architecture

- **Developed** a full-stack video communication platform using WebRTC and Socket.IO for real-time peer-to-peer media streaming.
- **Implemented** authentication, room-based connection handling, and media stream synchronization for multi-user video calls.
- **Built** a responsive UI using React.js to support dynamic video layouts and real-time status indicators.
- **Integrated** Docker for containerization of backend services and improved deployment consistency across environments.

Grocify - E-commerce Platform   **May 2024**
React.js, Tailwind CSS, Redux, RESTful APIs, Responsive Design, Performance Optimization

- **Spearheaded** development of an e-commerce frontend using React.js and Tailwind CSS, resulting in a 25% increase in conversion rates.
- **Constructed** responsive product catalogs and shopping cart functionality, boosting mobile user engagement by 40%.

- **Orchestrated** state management through Redux, decreasing component re-renders by 30% and improving app responsiveness.
- **Created** 15+ reusable UI components and custom hooks, cutting development time by 25% for future feature additions.
- **Integrated** third-party payment gateways with RESTful APIs, maintaining 99% uptime for critical user transactions.

Professional Skills

- **Team Collaboration: Coordinated** with cross-functional teams, leading 4 developers to complete 3 Agile projects ahead of schedule by 15%.
- **Project Leadership: Directed** teams of 3-5 members across 3 technical projects, improving sprint velocity by 25% through effective task prioritization.
- **Technical Communication: Delivered** 5+ technical presentations to audiences of 20+ members, translating complex concepts into accessible information.
- **Problem Solving: Resolved** 12+ critical system issues through analytical debugging, reducing system downtime by 40%.

Achievements & Coding Proficiency

- **HackerRank: Earned** 5-star rating in Java programming by solving 50+ complex algorithmic challenges, ranking in the top 10% of users.
- **LeetCode: Tackled** 100+ algorithmic problems during a 100-day challenge, achieving an 85% success rate on medium-difficulty problems.

Certifications

- **SmartBridge Certification – MERN Stack Development**
  Focused on full-stack development using MongoDB, Express.js, React.js, and Node.js.
- **MongoDB Node.js Developer Path – MongoDB University**
  Hands-on training in building applications with Node.js and MongoDB. Certificate Link
- **Google IT Support – Bits and Bytes of Computer Networking**
  Covered fundamentals of networking, protocols, and troubleshooting methodologies.
- **Cloud Computing Fundamentals – [Your Issuer Name]**
  Gained foundational knowledge in cloud infrastructure, service models (IaaS, PaaS, SaaS), and deployment on cloud platforms.