Rakesh Choudhary

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PROFESSIONAL SUMMARY

Full Stack Developer with 1+ year of professional experience in MERN stack development. Delivered scalable web applications with 45% performance improvements and 80% reduction in scheduling conflicts. Proficient in React.js, Node.js, MongoDB, Express.js, Next.js, TypeScript, and cloud deployment on Google Cloud Platform.

PROFESSIONAL EXPERIENCE

- **Software Development Engineer - 1 | Monkhub Innovations** | Gurgaon, India *Aug 2025 - Present*
  - Architected full stack web applications using **Next.js**, **React.js**, and **Node.js** with server-side rendering
  - Built data visualization dashboards with real-time analytics and role-based access control (RBAC)

- **Full Stack Developer | Code B Solutions Pvt. Ltd.** | Mumbai, India *2024 - Aug 2025*
  - Engineered scalable admin panel using **MERN stack** (MongoDB, Express.js, React.js, Node.js) serving 1000+ concurrent users with real-time synchronization using Socket.io
  - Designed **Google Cloud Platform** infrastructure with Compute Engine and Cloud Storage achieving 99.9% uptime
  - Optimized database performance by **45%** through MongoDB indexing, aggregation pipelines, and Redis caching

TECHNICAL PROJECTS

- **RolDrive - MERN Stack Ride Booking Platform** ⧉
  Full stack ride-booking application with admin dashboard and WhatsApp Business API integration
  - **Tech Stack:** MongoDB, Express.js, React.js, Node.js, TypeScript, Redux Toolkit, Socket.io, Google Cloud Platform
  - Engineered admin panel with real-time driver tracking, automated ride assignment algorithms, and analytics dashboard
  - Implemented RESTful APIs with JWT authentication, RBAC, and WhatsApp Business API for notifications
  - Optimized ride scheduling algorithms reducing booking conflicts by **80%**

- **Shortest Path Visualizer** ⧉ ⧉
  Interactive algorithm visualization tool implementing Dijkstra's algorithm with dynamic graph manipulation
  - **Tech Stack:** JavaScript ES6+, HTML5 Canvas API, CSS3, Data Structures, Graph Theory Algorithms
  - Created interactive visualization with drag-and-drop nodes, edge weight modification, and real-time path calculation

EDUCATION

- **National Institute of Technology, Warangal** *2022 - 2024*
  M.Sc. Mathematics & Scientific Computing CGPA: 8.0/10.0
- **Deshbandhu College, University of Delhi** *2019 - 2022*
  B.Sc. (Hons.) Mathematics CGPA: 9.0/10.0

TECHNICAL SKILLS

Frontend Development: React.js, Next.js, Redux Toolkit, JavaScript ES6+, TypeScript, HTML5, CSS3, Bootstrap
Backend Development: Node.js, Express.js, RESTful API Development, Microservices, JWT Authentication, Socket.io
Database Management: MongoDB, MySQL, Mongoose ODM, Database Design, Query Optimization, Aggregation Pipelines
Cloud & DevOps: Google Cloud Platform, Cloud Storage, Compute Engine, Docker, Git, GitHub, CI/CD
Programming Languages: JavaScript, TypeScript, Python, C++, SQL
Tools & Methodologies: Git Version Control, Agile Development, Code Review, API Documentation

ACHIEVEMENTS

- **Competitive Programming:** Top 100 Institute Rank on GeeksforGeeks with 534+ problems ⧉
- **LeetCode:** 400+ Data Structures & Algorithms problems across all difficulty levels ⧉
- **JAM 2022:** All India Rank 317 in Joint Admission Test for M.Sc. Mathematics (15,000+ candidates)