Deepak Nayak

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Professional Summary

Experienced MERN Stack Software Engineer with around 4 years of experience in **Full Stack Development**, specializing in backend engineering and scalable web and mobile applications. Proficient in Node.js, Express.js, Nest.js, React.js, Next.js, React Native, JavaScript, TypeScript, Sequelize ORM and MongoDB. Experienced in RESTful API development, database optimization, responsive development, authentication, authorization, real-time applications, AWS, Redis, and cloud technologies. Skilled in AI integrations using OpenAI and Gemini, Cursor AI-assisted development, and building secure, high-performance CMS, LMS, ERP, and e-commerce solutions. Focused on clean code, performance optimization, and Agile development. Recipient of a Best Performance Award.

Technical Skills

Backend Development & Architecture: Node.js, NestJS, Express.js, RESTful API Development, Backend Architecture, System Design, Scalable API Design, Microservices, Authentication & Authorization (JWT, RBAC), Data Modeling, Database Optimization, Cron Jobs, Clustering, Error Handling, Production Troubleshooting.

Databases & Caching: MongoDB, Mongoose, MySQL, Sequelize ORM, Redis, Schema Design, Query Optimization, Aggregation Pipelines, Indexing, Data Validation.

Frontend & Mobile Development: React.js, Next.js, React Native, JavaScript (ES6+), TypeScript, Redux, Redux Saga, EJS, Ant Design.

Real-Time Applications & Integrations: Socket.IO, Real-Time Communication, Razorpay, Google Play Billing, Firebase Admin SDK, Third-Party API Integration, Webhooks, Payment Processing.

AI & Cloud Technologies: OpenAI API, Gemini AI, AI-Powered Application Development, Cursor AI, GitHub Copilot, AWS, Firebase.

DevOps & Development Tools: Ubuntu, Nginx, Jenkins CI/CD, Git, GitHub, Postman, Swagger, Vercel, Google Play Console.

Enterprise Application Development: LMS, ERP, CMS, E-commerce Platforms, Mobile APP Admin Dashboards, Role-Based Access and Control (RBAC), Gradebook & Assessment Systems, Examination Reports, Student Management, LMS-Group, Excel Import/Export, Background Jobs, Performance Optimization, Secure API Development, Debugging, Production Troubleshooting, Code Maintainability, Reusable Components, Agile Development, Version Contro, Team Management, GitHub Collaboration, Large Codebase Management, Code Flow Analysis, Team Workflow Coordination

Work Experience (4 Years)

Software Developer – Full Stack (MERN) | Delhi Public School, Indirapuram (SFS) **03/2026 to Present**

- Develop & maintain product-based LMS/ERP applications using Node.js, NestJS, React.js, TypeScript, MongoDB, and RESTful APIs
- Design backend architecture, optimize databases, implement RBAC, integrate third-party APIs, and real-time business workflows
- Troubleshoot production issues, resolve QA defects, and improve application performance, reliability, and system stability.

Full Stack Developer | UD3 Logic Jaipur **09/2024 to 02/2026**

- Developed Live Aware app (Live on Play Store) using MERN stack, React Native, Redis and AWS, Cluster.
- Integrated Razorpay, Google Play Billing, Firebase APIs, JWT authentication, and Socket.IO for real-time features
- Implemented OpenAI and Gemini AI features, managing 1000+ Cloudinary media files and 2 chatbots efficiently

MERN Stack Developer | Vigorous IT Solutions Pvt, Ltd Jaipur **11/2023 to 08/2024**

- Developed Doctor Appointment App, CMS, Lead Management, and chatbots, improving user retention significantly.
- Built scalable backend with Node.js and Redis, and integrated 50+ third-party APIs seamlessly.
- Deployed real-time communication for 50K+ users using Socket.IO and designed UIs with React and Next.js

Trainee MERN Stack Developer | The Indian IT Technology Jaipur **01/2023 to 10/2023**

- Completed real project and continued as a full-time employee, developing MERN stack projects for real clients.
- Integrated real-time voice and text chat with speech recognition and standardized React.js UI used by 15+ engineers.
- Collaborated with team and TL to deliver secure authentication, responsive UI, and scalable Node.js backend.

Projects

Live Aware SaaS Project **Mobile App**

Architected and developed the complete backend from scratch using Node.js, Express.js, and MongoDB (MVC architecture) with modular RESTful APIs for Public, User, and Admin access. Implemented JWT-based 3-level authentication, role-based access control, Joi validation, custom middleware, rate limiting, and Redis caching for performance optimization and stability. Built React and React Native Mobile App and Admin CMS Panel integrating AI-powered features (OpenAI API), video-based content modules, Google Social Login (Google Console OAuth), subscription & payment APIs (Google Play Billing), SMTP email services, automated cron jobs, auto and CMS-triggered push notifications (Firebase FCM), and multiple activity trackers with history storage. Delivered an end-to-end scalable SaaS platform serving 50K+ users with secure, high-performance, production-ready infrastructure.

Foodies Hub – Food Ordering **Web Platform**

Built a full-stack Food Ordering Web App using Next.js, React.js, Redux Toolkit and Node.js, Express.js, MongoDB (MVC architecture) with RESTful APIs, JWT authentication, and complete order management system. Integrated Razorpay payment gateway, implemented secure checkout, Joi validation, role-based access control, and scalable, architecture with optimized performance.

AI Voice & Chat Assistant **Web Platform**

Created a full-stack AI Voice & Chat Assistant using React.js/Next.js and Node.js, Express, MongoDB, TypeScript (MVC, REST APIs), integrating OpenAI & Gemini APIs for real-time chat, voice interaction, and memory management. Implemented 3-level authentication and supported 50+ daily chat sessions with a scalable backend architecture.

More Projects: **GitHub**: github.com/dpknayak11 and **Portfolio**: dpknayak11portfolio.com

Education

Master of Computer Applications (MCA) | Rajasthan Technical University, Jaipur, Rajasthan **Graduated: 2023**

Bachelor of Computer Applications (BCA) | University of Rajasthan, Jaipur, Rajasthan **Graduated: 2021**

Certifications And Awards

- **Good Performance Award** – Vigorous IT Solutions Pvt. Ltd.
- **JavaScript Certification** – Great Learning Academy