

# VISHAL KUMAR SAIN

## Backend Engineer

Narnaul, Haryana

+91-7056256163 vishaldhoria007@gmail.com github.com/vis123Git linkedin.com/in/vishaldhoria

## EXPERIENCE

### Quest Global Technologies

Dec 2022 – Present

Node.js Developer

Remote

- Spearheaded backend development with 2+ years of experience in backend engineering, leveraging Node.js clustering to scale applications across multiple CPU cores for improved performance and reliability
- Architected and optimized server-side performance, achieving 25% improvement through advanced Node.js implementation and RESTful API design patterns while simultaneously managing 4+ production projects
- Designed high-performance database schemas using MongoDB and Mongoose, reducing query latency by 40% and implementing efficient indexing strategies
- Led the integration of AWS services, Google APIs, and third-party services. Secure authentication implemented using JWT and OAuth2.0 for user and admin platforms, ensuring robust access control and data security
- Orchestrated automated workflows using Bull-MQ and AWS-S3, optimizing background processes and file handling operations

### Quest Global Technologies

Sept 2022 – Dec 2022

Node.js Developer Intern

Remote

- Developed features using Node.js and MongoDB, contributing to enterprise-level applications
- Enhanced team efficiency by 25% through implementing automated testing processes, and worked on bugs.
- Optimized database operations achieving 20% performance improvement through query optimization with aggregation pipelines

## PROJECTS

### International Olympiad Platform

Technologies: Node.js, Express.js, MongoDB, Razorpay, JWT, AWS-S3, Bull-MQ

- Engineered examination platform handling 10,000+ concurrent users with Node.js and Express.js
- Implemented secure payment gateway with Razorpay, JWT authentication, processing 1000+ transactions
- Developed automated result processing using Bull-MQ and secure file storage with AWS-S3

### Payex Lending Application

Technologies: Node.js, Express.js, MongoDB, PayPal, Mongoose

- Architected lending platform with PayPal integration, handling 500+ daily loan applications
- Developed automated loan processing with 30% reduction in manual operations through PDF automation
- Implemented real-time notification system using WebSockets for instant updates

### Ivologist Health Platform

Technologies: Node.js, Express.js, MongoDB, AdvancedMD, Mongoose

- Built healthcare system improving patient adherence by 30% through automated tracking
- Integrated US-Based AdvancedMD software API for medical data transmission, reducing errors by 25%

## TECHNICAL EXPERTISE

**Core:** Node.js, Express.js, MongoDB, JavaScript, TypeScript

**Frontend:** React.js, HTML5, CSS3, Redux, REST APIs

**Database:** MongoDB, Mongoose, Redis, Database Design

**Cloud & DevOps:** AWS-S3, Git

**Tools:** Bull-MQ, JWT, Postman, Puttygen, S3 Browser, Razorpay, PayPal, Stripe, Firebase

## EDUCATION

**Maharshi Dayanand University**

2022

Bachelor of Computer Application

Rohtak

## CERTIFICATIONS

- MEAN Stack Developer - APTRON
- MERN Stack Development - ACCIO
- Specialized in Software Development and Problem Solving - SCALER