

Nilesh Sen

Aspiring Backend Developer

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PROFESSIONAL SUMMARY

Backend Developer with hands-on experience designing secure REST APIs using Node.js, Express.js, and MongoDB with JWT authentication, role-based access control, and Redis-based access management. Strong foundation in Data Structures & Algorithms, DBMS, Operating Systems, and Computer Networks with a passion for building scalable backend systems.

PROJECTS

Paper Security System | Node.js, Express.js, MongoDB, EJS 2025

GitHub: github.com/Nilesh907/Secure-Online-Exam-System

- Engineered a secure paper distribution platform using Node.js, Express.js, MongoDB, and EJS following the MVC architecture.
- Implemented JWT-based exam token generation, session authentication, role-based access control (Admin, Reviewer, Student), and device fingerprinting for secure exam access.
- Secured exam papers using AES-256 encryption, SHA-256 integrity verification, server-generated watermarking, audit logging, risk scoring, account locking, and automated suspension for suspicious activities.
- Integrated AI-powered Risk Analysis and Leak Prediction modules to analyze violations, predict security threats, and generate automated security recommendations.
- Designed a modular, MVC-based codebase built for maintainability and future extension, with clear separation of routes, controllers, and services.

Portfolio Website | HTML, CSS, JavaScript 2026

Live: nilesh907.github.io/Nilesh-Portfolio

- Built and deployed a personal developer portfolio to showcase backend projects, technical skills, and resume to recruiters.
- Implemented a responsive, recruiter-focused layout with project breakdowns, architecture highlights, and direct GitHub links.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, SQL

Backend: Node.js, Express.js, REST API Development, API Design, JWT Authentication, Authentication & Authorization, Middleware, MVC Architecture, Redis, node-cron, Session Management, Error Handling

Databases: MongoDB (Mongoose), MySQL, Database Design, Aggregation Pipelines, Schema Design, Indexing

Tools: Git, GitHub, Postman, VS Code, EJS

Core CS: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks

EDUCATION

Chameli Devi Group of Institutions, Indore

B.Tech in Computer Science Engineering 2023 – 2027

CERTIFICATIONS

- AWS Solutions Architecture Job Simulation — Forage
- Deloitte Cyber Job Simulation — Forage
- Microsoft – Get Started with AI in Azure
- GenAI Powered Data Analytics Job Simulation — Forage