Madhusudan Bhukta

Backend Developer (Node.js Express MongoDB. Redis)

✉ madhusudanbhukta.dev@gmail.com   ⭘ github   in linkedin   🌐 Portfolio

SUMMARY

Backend Developer specializing in scalable REST APIs, modular architectures, authentication systems, and high-performance backend engineering. Experienced with Node.js, Express, MongoDB, and Redis. Improved API latency, optimized data access patterns, and implemented production-style features such as caching, RBAC, and payment workflows. Learning SQL and Docker to deepen system-design capability.

CORE COMPETENCIES

API Architecture • System Design Fundamentals • Caching Strategies • Error Handling • Performance Debugging • Query Optimization • Database Indexing • Scalable Folder Structures • Clean Code Practices • Deployment Workflows

SKILLS

Languages: JavaScript (ES6+), TypeScript (learning), Python, SQL
Backend: Node.js, Express.js, REST API Architecture
Databases: MongoDB, Mongoose, Redis, MySQL (learning)
Auth & Security: JWT, Refresh Tokens, RBAC
Backend Engineering: Caching, Rate Limitng, Pagination, Indexing, Domain Modeling
Tools: Git, GitHub, Postman, MongoDB Atlas, Render, Vercel, Docker, Load Testing (Autocannon/k6)

PROJECTS

ShopNexus (E-Commerce Platform)   *Node.js, Express, MongoDB, Redis, Stripe*

- Improved product and category API latency by 35–60% using Redis caching and reduced redundant DB reads.
- Implemented JWT authentication, refresh tokens, RBAC, modular services, and full Stripe payment lifecycle.
- Designed domain models, implemented cache invalidation strategy, and performed load testing for system stability.
- ⭘ **Project Repository**

LearnSphere (Learning Management System)   *React, Node.js, Express, MongoDB, Stripe*

- Built a full-stack LMS with role-based access control for Students, Instructors, and Admins.
- Implemented secure JWT-based authentication with cookie handling and session persistence.
- Integrated Stripe Checkout for course enrollment payments and order management.
- Developed course and lesson management with free preview access and dynamic enrollment logic.
- ⭘ **Project Repository**

DevTinder (Matching Platform)   *Node.js, Express, MongoDB*

- Built user profile system, matching logic, secure authentication, and modular API architecture.
- Added database indexing to improve match lookup performance and query efficiency.
- ⭘ **Project Repository**

EXPERIENCE

Independent Backend Developer   **2024–Present**

- Built production-style backend systems with authentication, caching, and payment workflows.
- Improved API performance through caching, indexing, and optimized query patterns.
- Created middleware for validation, logging, error handling, and security.
- Performed debugging, load testing, and architecture refinement across multiple projects.

TECHNICAL STRENGTHS

API Architecture • Error Handling • Caching Strategies • Performance Debugging • Data Modeling • Query Optimization • Deployment Workflows

EDUCATION

BCA (2024-2027) — NIIS Institute of Business Administration, Odisha, India