# Ashish Kumar Jha

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Backend Developer (Node.js | MongoDB | REST APIs)
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## SUMMARY

Backend Engineer with hands-on experience building scalable RESTful APIs using Node.js, Express, MongoDB, and Redis. Skilled in backend architecture, performance optimization, secure authentication, and API design. Experienced in working with production-grade systems, caching layers, logging, and cloud-based deployments. Actively expanding expertise in Docker, SQL, and cloud infrastructure to build reliable, scalable backend systems.

## PROJECTS

**E-Commerce Backend API — GitHub • Live Demo**
*Tech Stack: Node.js, Express.js, MongoDB, Redis, Cloudinary*

– Optimized product listing APIs via search, filter, sort & pagination → improved response time noticeably with efficient MongoDB queries.
– Added Redis caching → cut repeated DB reads by 40% for listings & details.
– Streamlined order workflow → accurate snapshot pricing & stock deduction for reliable transactions.
– Added Winston logging → improved debugging & traceability across endpoints.
– Cloudinary stream upload → lower memory usage during image upload.
– Secured APIs with Helmet, rate limiting, sanitization, and secure HTTP-only refresh token mechanism.

**Task Manager API — GitHub • Live Demo**
*Tech Stack: Node.js, Express.js, MongoDB, Redis, Cloudinary*

– Redis caching for task listing → enabled 2× faster responses with automatic cache invalidation during CRUD operations.
– Avatar upload system → reduced storage waste through automatic old-file cleanup.
– Aggregation analytics → generated task completion statistics and trends using MongoDB aggregation pipelines.
– Strengthened security using Helmet, XSS-clean, sanitization, CORS, rate limiting, and secure cookies.
– Applied MVC architecture with clean error handling and Winston structured logging.

## TECHNICAL SKILLS

**Languages:** JavaScript
**Backend Frameworks:** Node.js, Express.js
**APIs & Auth:** REST APIs, Authentication, Authorization (JWT)
**Database:** MongoDB, Mongoose, Basic PostgreSQL (learning)
**Caching:** Redis (basic caching)
**File & Cloud Handling:** Cloudinary, Multer
**Tools:** Git, GitHub, Postman, VS Code
**Deployment:** Render, MongoDB Atlas

## EDUCATION

**Amity University Online**                                                                                   Noida, India
*Bachelor of Computer Application; CGPA: 8.3/10.0*                                            *2023 – 2026*
**Govt. Boys Senior Secondary School**                                                       New Delhi, India
*Class 12th (Senior Secondary)*                                                                             *2022 – 2023*

## ACHIEVEMENTS

• **Academic Excellence:** Maintained 8.3 CGPA throughout Bachelor's program