

# KRRISH KUMAR

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## PROFESSIONAL SUMMARY

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Backend Engineer with hands-on experience building scalable, low-latency systems using Node.js and distributed architectures. Designed real-time systems, microservices, and async processing pipelines using Redis, RabbitMQ, and WebSockets. Strong in DSA, system design, and backend performance optimization.

## EXPERIENCE

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**Backend Developer Intern** 10/2025 – 12/2025  
*Rablo* *Remote*

- Developed and deployed modular REST APIs using Node.js, Express, and MongoDB with 30% faster response times
- Implemented JWT authentication, middleware-based access control, and error-handling pipelines ensuring 100% secure API coverage
- Refactored backend architecture into controller-service structure, improving maintainability and scalability

## PROJECTS

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**RideWave: Real-Time Ride Matching System**  01/2025

- Technologies: Node.js, Express, MongoDB, Redis, Socket.IO
- Engineered an event-driven real-time matching engine handling 10K+ concurrent WebSocket connections
- Used Redis geospatial queries for instant driver-passenger proximity detection, cutting latency by 65%
- Designed Haversine-based matching algorithms to enhance ride accuracy and reliability

**Airline Booking Management System**  04/2025

- Technologies: Node.js, Express, MySQL, Microservices, RabbitMQ
- Built microservice-based architecture for authentication, booking, search, and notification modules
- Developed a rate-limited API Gateway with fault-tolerant retry and service discovery logic
- Enhanced MySQL query efficiency and caching, achieving 35-40% latency reduction across services

**AlgoForge: Distributed Coding Platform Backend**  10/2025

- Technologies: Node.js, Express, Fastify, MongoDB, Redis, BullMQ, Docker
- Designed LeetCode-style backend system supporting problem management, code submissions, and automated evaluation
- Built multiple backend microservices with clear responsibility separation and asynchronous processing
- Implemented isolated code execution using Redis and BullMQ queues, enabling secure and non-blocking evaluation

## TECHNICAL SKILLS

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**Languages:** C++, JavaScript (ES6+), TypeScript, SQL

**Backend & Frameworks:** Node.js, Express.js, Fastify.js, RESTful APIs, Microservices, Socket.IO

**Databases:** MongoDB, MySQL, Redis (Caching, Geospatial)

**DevOps & Tools:** Docker, RabbitMQ, BullMQ, AWS (EC2, S3), Git, Postman

**Core Competencies:** DSA, System Design, Scalability Optimization, Distributed Systems

## EDUCATION

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**Ajay Kumar Garg Engineering College** 2022 – 2026  
*B.Tech in Computer Science and Engineering* *Ghaziabad, Uttar Pradesh*

**Loyola High School** 2020 – 2021  
*Higher Secondary Certificate (CBSE)* *Patna, Bihar*

## CERTIFICATIONS & ACHIEVEMENTS

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### Certifications:

Backend Development with Node.js & Express — PW Skills (2024)

Data Structures & Algorithms in C++ — Udemy (2024)

### Achievements:

5+ Hackathons — built production-ready backend systems under 24-48 hr sprints

Solved 200+ DSA problems across LeetCode, GFG, and Codeforces