

Harsh Bajaj

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PROFESSIONAL SUMMARY

Backend Systems Engineer with 2 years of experience building scalable APIs, async systems, and backend infrastructure using Node.js, PostgreSQL, Redis, and Docker.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python

Backend: Node.js, Express.js, REST APIs, BullMQ

Databases: PostgreSQL, MongoDB, Redis

Infrastructure: Docker, Linux, Nginx, PM2, AWS S3

Performance/Security: Load Testing, JWT, RBAC, Rate Limiting

AI/NLP: ONNX Runtime, TF-IDF, Semantic Search

EXPERIENCE

Web Developer (Backend)

Apr 2025 – Apr 2026

Cynox Security LLP

Delhi, India

- Developed internal backend systems for task management, invoicing, reporting, and workflow automation using Node.js, PostgreSQL, Redis, and REST APIs.
- Improved backend performance by ~2x through PostgreSQL optimization and Redis/BullMQ async processing under **100+ concurrent-user** test loads.
- Stabilized Linux VPS infrastructure and reduced generated PDF report sizes by **10x**.
- Managed Docker deployments using Nginx, PM2, and Linux VPS environments.

Independent Backend Projects & System Development

Oct 2024 – Mar 2025

Self-Directed Learning & Backend Engineering

Remote

- Constructed conceptual backend systems focused on REST APIs, authentication systems, PostgreSQL optimization, and Redis/BullMQ workflows.

Software Engineer

Nov 2023 – Sep 2024

North Delhi Public School

Delhi, India

- Established backend-driven workflows using PHP and WordPress for enquiry management and institutional reporting systems.
- Processed and structured institutional datasets to support operational reporting workflows.

PROJECTS

AI Resume Matching & ATS Feedback System

Mar 2026 – May 2026

Node.js, PostgreSQL, Redis, ONNX Runtime, TF-IDF, Docker

- Built an ATS evaluation platform using ONNX embeddings, TF-IDF fallback pipelines, and semantic similarity scoring.
- Designed a tiered scoring system with domain weighting and penalty-based evaluation logic.
- Load tested the platform at ~**1350 req/sec** under **2000 virtual-user** stress conditions with zero request failures.

Task Management System

Jun 2025 – Dec 2025

Node.js, PostgreSQL, Redis, BullMQ, JWT, RBAC

- Delivered a modular backend with JWT authentication, RBAC, and middleware-driven APIs.
- Integrated Redis/BullMQ asynchronous workflows for scalable background task processing.
- Implemented rate limiting and concurrent traffic handling for API stability.

EDUCATION

Indira Gandhi National Open University (IGNOU)

2025 – 2027

Master of Computer Applications (MCA)

New Delhi

Deshbandhu College

2021 – 2025

BSc Computer Science

New Delhi