

SHIVAM KUMAR

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SUMMARY

Backend Engineer with 2+ years building scalable systems — Node.js, NestJS, Redis, AWS, GraphQL. Independently delivered 3.5M+ user platforms; drove performance & latency improvements and open source tooling with measurable business impact.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, C, C#

Backend/DB: Node.js, NestJS, Express, REST APIs, Redis (Queues, Caching, Pub/Sub), GraphQL, DynamoDB, PostgreSQL, MongoDB, Supabase, SQL, Firebase (Firestore)

Frontend: Next.js, React.js, React Native, Tailwind, Flutter, HTML5, CSS3

Cloud/Tools: AWS (Amplify, Cognito, EC2), Cloudflare, Docker, System Design, Distributed Systems, Async Processing, Background Jobs, Git, Linux (Ubuntu)

EXPERIENCE

Freelance — Backend Engineer & Infrastructure Lead

May 2025 – Present

- Architected and deployed infrastructure for a high-traffic media platform handling **millions of concurrent users at high RPS**, ensuring low latency and high availability under sustained load.
- Built **Redis-based queue systems** for background job execution and task queuing; implemented caching layers that significantly reduced DB load and improved API response times.
- Designed distributed system architecture across cloud services; set up CI/CD pipelines cutting deployment time by **70%**.

Rajasthan Patrika — Software Developer

Aug 2024 – Apr 2025

- Converted Web Stories to **AMP**, boosting Google Discover **monthly views by 107%** (from <100k to 1.7M).
- Designed and built a **scalable ePaper platform (3.5M+ users)** using Next.js, NestJS, and AWS.
- Implemented authentication and entitlement-based access control using **AWS Cognito**.
- Architected NestJS APIs to normalize WordPress content and enable dynamic editions and ad integrations.
- Replaced a costly third-party service with an in-house system, delivering significant annual cost savings.

Qrusible Pvt. Ltd. — Software Developer

Aug 2023 – May 2024

- Refactored legacy modules to improve stability and performance, reducing repeated system failures.
- Designed and launched a points/rewards system that **increased engagement by 40%**.
- Built a cross-platform app using React Native, AWS, and GraphQL for scalable data access.
- Led end-to-end delivery including UI planning, backend data modeling, GraphQL schema design, and rollout.

Qrusible Pvt. Ltd. — Data Engineer Intern

May 2023 – Aug 2023

- Built a Resume Converter using **PyPDF2** and **OpenAI API**, extracting fields into DynamoDB-backed records.
- Built a Google Sheets → **DynamoDB** sync via **Node.js/Express + GraphQL** with a simple analyst-facing UI.

PROJECTS

@automate-crud/mongoose — Open Source npm Package

2025 - Present

- Built a monorepo package that eliminates repetitive backend CRUD boilerplate — define a Mongoose model, mount one router, get full REST APIs instantly.
- Auto-generates 5 routes with pagination, sorting, field selection, search, filtering, and controlled populate; supports lifecycle hooks and custom routes for real-world escape hatches.

react-pdf-cropper — Published npm Package

2024

- Zero-dependency React library for cropping, watermarking, and downloading PDF regions directly from PDF.js canvas — no html2canvas, pixel-perfect with zero lag.
- Production-ready; used at Rajasthan Patrika serving 3.5M+ users; supports mouse + touch, watermarking, and instant download.

EDUCATION

Birla Institute of Technology, Mesra

Bachelor of Computer Applications — **88.8%**

2020 – 2023

Ranchi, Jharkhand