SHIVAM KUMAR

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SUMMARY

Backend/Product Engineer with 3+ years of experience building scalable web systems and shipping end-to-end features. Strong in Node.js/NestJS, Next.js, AWS (Cognito, DynamoDB, Amplify), and GraphQL; delivered measurable outcomes including traffic growth, engagement uplift, and major cost savings via in-house platforms.

TECHNICAL SKILLS

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

Backend: Node.js, NestJS, Express, REST APIs, GraphQL, API integrations

Databases: DynamoDB, PostgreSQL, MongoDB, SQL, Firebase (Firestore)

Frontend: Next.js, React.js, React Native, Tailwind, HTML/CSS

Cloud/Tools: AWS (Amplify, Cognito), Git, Linux (Ubuntu)

EXPERIENCE

Rajasthan Patrika — Software Developer   **Aug 2024 – Apr 2025**
- Converted Web Stories to **AMP**, improving Google Discover eligibility and **increasing monthly views by 107%** (from <100k to 1.7M).
- Improved **SEO indexability** for patrika.com by optimizing metadata, titles/descriptions, and social tags.
- Designed and built a **scalable ePaper platform (3.5M+ users)** using Next.js, NestJS, and AWS Amplify + DynamoDB.
- 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**
- Automated transcript extraction workflows, **reducing manual time by 80–90%**; mapped structured outputs to **DynamoDB**.
- Built a Resume Converter using **PyPDF2** and **OpenAI API**, extracting fields into DynamoDB-backed records.
- Integrated Google Sheets with **DynamoDB** via **Node.js/Express + GraphQL**, enabling CRUD operations with a simple UI for analysts.

PROJECTS

Synthetic Beings — AI Product Validation Tool (Side Project)   **2025 – Present**
- Building an AI-driven product validation and persona-analysis system; focused on API-first architecture, data pipelines, and deployment-ready backend foundations.
- Built with Node.js/TypeScript, Next.js, and modular backend services designed for scalable AI-driven workflows.

AI Content Automation Pipeline — n8n Workflow System   **2025**
- Designed and deployed an automated content generation and publishing pipeline using n8n with multi-step workflow orchestration.
- Integrated LLM APIs for topic discovery and post generation; implemented draft-review-approval flow via Telegram integration.
- Configured scheduled publishing to LinkedIn with event-driven triggers and conditional logic handling.
- Architected modular workflow nodes to support dynamic content inputs and scalable automation.

EDUCATION

Birla Institute of Technology, Mesra   **2020 – 2023**
Bachelor of Computer Applications — 88.8%   *Ranchi, Jharkhand*