

Aayush Kumar Sharma

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EDUCATION

- **National Institute of Technology** Patna, Bihar
Bachelor of Technology in Computer Science; CGPA: 8.24
Nov 2020 – May 2024
- **R.J.S. College** Dighwara, Bihar
Intermediate (Class XII), BSEB; Percentage: 80.40%
July 2017 – April 2019

EXPERIENCE

- **Software Developer** May 2024 – Present
Paiteq Private Limited
 - Tech Stack: **Node.js, NestJS, MongoDB, MQTT, EMQX, Redis, BullMQ, Typesense**.
 - Architected a proximity-based social platform supporting 10,000+ concurrent connections via MQTT/EMQX with real-time bidirectional communication.
 - Implemented a custom timeline aggregator service using Redis caching strategies, reducing feed retrieval latency to 100ms under high load (500+ writes/sec).
 - Designed and deployed a typo-tolerant full-text search solution using Typesense and MongoDB geospatial queries, enabling indexing of millions of records with query latency under 50 ms.
 - Orchestrated resource-intensive background tasks (e.g., video transcoding, notifications) using BullMQ and Redis, processing 1,000+ jobs/minute.
 - Integrated Gorse with a custom weighted scoring algorithm (analyzing recency, engagement, and social graphs) to drive personalized content delivery.
 - Developed an optimized media processing pipeline for images and videos using FFmpeg and Imgproxy, leveraging Cloudflare R2 for efficient storage.
 - Implemented a low-latency system for chat, user presence, and live status updates using MQTT protocols.
- **Software Developer Intern** Dec 2023 – April 2024
Paiteq Private Limited
 - Contributed to backend development using TypeScript, Node.js, and NestJS, while supporting frontend implementations in React and Redux.
 - Integrated optimized RESTful APIs to streamline client-server communication and enhance data flow efficiency.
 - Formulated high-level architectural schemas and database designs, implementing concurrency handling for reliable system performance.
 - Managed version control workflows via Git/GitHub and assisted in deploying scalable cloud infrastructure on AWS.

PROJECTS

- **GreenGrocery** June 2023 – Sep 2023
Tools: React.js, Node.js, MongoDB, Express.js, Stripe API
 - Developed a full-stack e-commerce grocery platform featuring secure user authentication and a dynamic shopping cart.
 - Integrated the Stripe API for seamless payment processing and order management.
 - Leveraged React.js for a responsive frontend interface and Node.js/Express for robust backend logic.

ACHIEVEMENTS

- Knight on [LEETCODE](#) — Maximum Ratings: 2024
- Specialist on [CODEFORCES](#) — Maximum Ratings: 1471
- 3 Star on [CODECHEF](#) — Maximum Ratings: 1721

SKILLS

- **Languages:** C/C++, JavaScript, Typescript, SQL, HTML, CSS
- **Frameworks:** NodeJs, NestJs, ExpressJs, ReactJs, PostgreSQL, MongoDB
- **Coursework:** Data Structures and Algorithms, Object Oriented Programming, Database Management System, Operating System, Computer Networks