

HARSH KUMAR MISHRA

Full Stack Developer

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SUMMARY

Full-Stack Developer with hands-on experience building scalable, secure web applications using **React, Node.js, and Express.js**. Skilled in implementing real-time features with **Socket.io**, managing complex media/mail integrations via **Cloudinary** and **SMTP** and integrating **Helmet.js** to secure the application by setting various **HTTP** headers to protect against common **web vulnerabilities**. Focused on delivering high-performance, real-world solutions and encrypted communication tools.

EDUCATION

Darbhanga College Of Engineering,Darbhanga,
Bihar Engineering University(BEU),Patna

September 2023-June 2027

Bachelor of Technology in Computer Science Engineering Specialisation in Cyber Security

CGPA : 7.75/10

SKILLS

- **Programming Languages :** C,C++,Javscript
- **Frontend :** React.js, Next.js, JavaScript (ES6+), TypeScript, HTML5, CSS3,Redux Toolkit, Context API, React Query
- **Backend:** Node.js, Express, REST APIs
- **Database:** MongoDB,MySQL,PostgreSQL
- **Tools & DevOps:** Git, GitHub, Docker,Vercel,Render

EXPERIENCE

Frontend Developer Intern | [Krishnova FPC](#) [Link](#)

Remote
June 2025- July 2025

- Developed and deployed the company's **Ecommerce (Makhana)** website using **React, Typescript** focusing on high-quality code and **reusable 50+ UI components**.
- Engineered custom **React hooks** and implemented **Redux Toolkit** to manage complex **global states**, reducing redundant **API calls by 30%** and improving **server-response handling**.
- Developed a custom serverless integration with **Google Sheets API**, handling **100%** of order data and customer inquiries with zero infrastructure overhead.
- Engineered a secure backend routing system to handle bulk **B2B** inquiries and **D2C transactions**.

Full Stack Developer Intern | [JA IT Solutions Limited](#) [Link](#)

Remote
November 2025- February 2026

- Developed and Deployed a scalable **MERN stack E-learning** application featuring a dynamic course management system, secure user authentication, and an integrated payment/enrollment flow, meeting **100%** of the project milestones.
- Optimized educational content delivery by integrating **Cloudinary SDK**, resulting in **sub-2-second** load times for media-heavy lesson pages, reducing **server storage** load by **60%**.
- Engineered a **real-time** communication layer and automated **mail services (SMTP)** to handle user onboarding and course updates, improving user return rate.
- Leveraged **Node.js/Express** for a non-blocking backend architecture, capable of handling concurrent user requests for video streaming and quiz submissions.

PROJECTS

Edulearn E-learning Website- [Link](#) [Github](#)

- Built a **MERN stack E-learning** application featuring a dynamic **course** management system, secure **user** authentication, and an integrated payment/enrollment flow.
- Secured **user** sessions using **JWT** and **Bcrypt**, managing a **database schema** that optimized **query response times by 30%** through efficient indexing in **MongoDB**.
- Optimized **image and document** processing using **Multer** and **Cloudinary**, reducing **server storage** load by **60%**.

Tarang Chat Application- [Link](#) [Github](#)

- Architected a **real-time** communication engine using **Socket.io** and **Node.js**, supporting concurrent user sessions with a **99.9%** message delivery rate.
- Optimized **chat** history retrieval using **Mongoose** with lean queries and indexing, reducing initial chat load times by **35%** through a structured **50-message** pagination strategy.
- Implemented strict server-side validation for a **2,000-character** message limit, preventing memory overflow and ensuring a **25% reduction** in server heap usage during peak traffic.

URLShortner Application- [Link](#) [Github](#)

- Engineered a high-throughput **MERN-Stack URL shortening** service using **Node.js** and **Redis**, achieving a **70%** reduction in redirection latency by implementing a **cache-aside** strategy for **URLs**.
- Leveraged **MongoDB** for persistent storage and **Redis** for **in-memory caching**, supporting a system capable of handling **100+ requests per minute** with **O(1)** lookup efficiency.
- Built a robust validation layer using **Joi** and **Validator.js**, reducing malformed data entries and potential **NoSQL injection risks** by **95%** through strict schema enforcement.

CERTIFICATIONS & ACHIEVEMENTS

Hacktoberfest 2025 | Level 1 Contributor Badge- [Link](#)

1- 31st October 2025

- Contributed to **10+ international open-source repositories**, collaborating with global maintainers to resolve critical **UI/UX** inconsistencies and complex **JavaScript logic bugs**.
- Refactored **React** components and optimized **core JavaScript logic**, leading to measurable improvements in frontend reliability and reducing redundant code in production environments.
- Demonstrated mastery of the **Software Development Lifecycle (SDLC)** by successfully managing **forks, branches**, and navigating rigorous **Pull Request (PR)** review processes across diverse project standards.
- Enhanced project onboarding and accessibility for new developers by contributing high-quality technical documentation and defining clear code standards.
- Awarded the **Hacktoberfest 2025 Level 1 Badge** for consistent high-quality contributions to the global developer ecosystem.