

# Harsh Shukla

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## PROFESSIONAL EXPERIENCE

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### BillionByte Technologies

*Software Developer (Hybrid)*

**Mumbai, India**

*June 2023–Present*

- Spearheaded and maintained production-grade codebases across multiple client and internal projects, delivering features end-to-end in a high-velocity, service-to-product transition environment.
- Independently architected and deployed secure, scalable authentication flows using Node.js, JWT, and custom middleware, reducing auth-related incidents by 30% and cutting onboarding friction.
- Engineered the backend of a real-time trading system with Node.js, Express, Redis (Pub/Sub), and WebSockets, capable of handling thousands of events per second with high reliability.
- Leveraged advanced TypeScript patterns and clean MVC architecture to build modular backend services—boosting maintainability and reducing technical debt by over 40% across teams.
- Implemented streaming APIs and experimented with live video data processing, exploring serverless compute and event-driven architecture with message queues and Kubernetes integration.
- Worked extensively with SQL and NoSQL databases, Docker (multi-container orchestration with volumes and networks), and deployed services using AWS EC2, S3 buckets, and GitHub Actions.
- Mentored and onboarded new interns by breaking down complex systems into approachable components, creating documentation and walkthroughs that helped them become productive contributors within their first week.

### KnowledgeGATE Eduventures

*Mentor and Network Security Faculty*

**Gaziabad, India**

*March 2022–Jan 2023*

- Taught Network Security fundamentals and hands-on modules as a subject faculty, simplifying complex topics for undergraduate and early-career engineers.
- Received a personal recommendation from the COO for excellence in teaching, impact-driven mentorship, and consistent learner engagement.

## OPEN-SOURCE

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### humanize-this

**Github, NPM**

- A lightweight yet powerful utility package designed to convert raw, machine-readable data into clean, human-friendly formats—optimized for real-world applications at scale.
- Born out of the recurring friction experienced while working on production-grade codebases, humanize-this emerged as a modular, zero-dependency solution that simplifies the complexity of formatting numbers, time, currencies, file sizes, and text—all with full TypeScript support.
- 40+ stars on GitHub

## EDUCATION

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### DIT University

*B.Tech in Computer Science (Specialization in Cyber Security and forensics)*

**Dehradun, India**

*May 2021*

## SKILLS

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- **Languages:** TypeScript, JavaScript, Java, HTML5, CSS3
- **Frontend:** React.js, Vite, Parcel, Tailwind CSS, Shadcn UI, Zod, Global State Management
- **Backend:** Node.js, Express.js, Docker (Containers, Networks, Volumes), Redis (Pub/Sub), WebSockets, Prisma, Mongoose, Firebase
- **DevOps Infra** AWS (EC2, S3), GitHub Actions, Serverless Functions, Light Kubernetes, Message Queues