

# Hitesh Shetty

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## Professional Summary

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Senior Software Engineer with 5+ years of end-to-end product delivery. Proven track record of improving performance, leading cross-functional teams, and delivering high-impact features. Expertise spans frontend (**React, Next.js, TypeScript**), backend (**Node.js, NestJS, MongoDB, REST/GraphQL APIs**), and cloud-native infrastructure (**AWS, Docker, Kubernetes**). Architected modular platforms, streamlined complex editors, and integrated AI solutions to boost productivity and adoption across enterprise CMS products.

## Professional Experience

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### Contentstack, Virar, India

Senior Software Engineer 2

Feb 2024 – Present

- Led architecture and end-to-end development of the flagship [Visual Editing Platform](#) with a **team of 5 engineers**, driving system design, cross-team collaboration, and delivery timelines.
- Implemented a modular micro-frontend architecture using **Module Federation** and a lossless partial-data patching system, enabling secure real-time inline editing via iframe sandboxing and postMessage communication. **Reduced redundant calls by 20%** using React Query.
- Established a comprehensive testing framework using React Testing Library and Playwright, integrating Slack alerts, **reducing regression issues by 15%** and **increasing release throughput by 20%**.
- Automated a Starter App deployment pipeline on AWS (API Gateway, SQS w/ DLQ, ECR, Lambda) for isolated stakeholder testing, **cutting setup time by 60%**.

Senior Software Engineer 1

Feb 2023 – Feb 2024

- Co-led the first [AI integration](#) within the CMS, leveraging **OpenAI APIs** to enable on-demand content generation, rewriting, and translation directly within the editor, boosting editor productivity by 20% through contextual, AI-driven suggestions.
- Modernized the [Preview Service](#) architecture by introducing dedicated REST and GraphQL APIs in **NestJS** (30+ endpoints, 8+ resolvers) with schema introspection and optimized query planning for scalable data fetching.
- Integrated **gRPC-based microservices and OPA policies** for access control, expanding preview support across multiple content workflows and boosting feature adoption by 25%.

Software Engineer 2

Feb 2022 – Feb 2023

- Reduced medium-content and large-content response times by 61% and 94%, respectively, by applying a Copy-on-Write (CoW) strategy and restructuring APIs.
- Architected and delivered [commenting](#) support in RTE, designing backend APIs and UI workflows, enabling users to comment, reply, and resolve feedback in real-time.

Associate Software Engineer

July 2021 – Feb 2022

- Built the backend architecture for a JSON-based Rich Text Editor, with block-structured diff storage, versioning, and tuned **indexing** to support scalable document editing. Applied **transactions** for correctness and offloaded heavy operations to background jobs with **eventual consistency**, ensuring reliable performance on large documents. (*Express, MongoDB*)
- [Authored open-source libraries](#) enabling seamless conversion between JSON and HTML RTE formats, with **20k+ weekly downloads**.

Fullstack Consultant

Aug 2020 – July 2021

- Designed and developed a **JSON-based Rich Text Editor (RTE)** with advanced features such as drag-and-drop, table support, and seamless copy-paste from Google Docs, Microsoft Word, and other sources. Optimized rendering to handle **large documents with minimal latency**, improving editor performance by ~40%. (*React, State.js, React-DND, Prism.js, Storybook*)
- Created reusable **higher-order components** (HOCs) to extend the JSON RTE into **HTML and Markdown variants**, enabling flexible integration across multiple workflows.
- Delivered editor components widely adopted in core CMS products, supporting **1,000+ concurrent users daily** with high reliability.

## Selected Projects

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[Virtual IG – Real-time Interview Platform](#) | NestJS, WebSockets, Yjs, Slate.js, and React

- Launched a real-time collaborative coding platform for remote technical interviews.
- Implemented multi-user live code editing using Yjs and WebSockets, eliminating the need for screen sharing.
- Introduced private interview rooms with shareable links, enabling seamless pair programming and collaborative assessments.

[Offline Detector \(Open Source\)](#) | TypeScript, Lerna, Rollup

- Published a TypeScript npm package (~1KB size) for reliable offline/online detection across Chrome, Firefox, and Safari.
- Defined a lightweight API with fallback strategies to handle inconsistent browser network states.
- Authored clear documentation and usage examples, improving developer adoption and integration ease.

## Open Source

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- [Slate.js](#) – Contributed fixes to Slate.js, a leading React-based rich text editor (30k+ stars)
- [Stylex \(Meta\)](#) – Contributed enhancements and fixes to Meta's CSS-in-JS styling library (8k+ stars)

## Achievements

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- **Above & Beyond Award (x3):** Recognized for exceptional performance and contributions in Q1 2023, Q1 2025, and Q2 2025.
- **Winner of DevFest 2023:** Built a 3D immersive asset editor, enhancing visualization and interactivity for 3D assets.
- **Winner of Security bug bounty 2023:** Reported a high-severity production vulnerability, improving system security and resilience.
- **Winner of VCET National Level Project Showcase:** Blockchain-based certificate verification system preventing counterfeiting.

## **Education**

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**Mumbai University**, Vasai, India

Bachelor of Engineering in Information Technology, **8.76 CGPA**

## **Key Skills**

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**Core Stack:** React, TypeScript, Node.js, REST API

**Frontend:** JavaScript, HTML5, CSS3, Zustand, React Query, Redux, Slate.js

**Backend:** Express, NestJS, MongoDB, Microservices, Pusher

**DevOps & Cloud:** Docker, Kubernetes, Redis, AWS (SQS, SNS, Lambda), GoCD

**Testing & Automation:** Playwright, Jest, React Testing Library

**Tools & Collaboration:** Git, GitHub, Figma, Agile/Scrum