Hitesh Shetty

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Professional Summary

Senior Software Engineer with 5+ years of full-stack experience, specializing in React, TypeScript, Node.js, and scalable distributed systems. Architected modular platforms, streamlined complex editors, and integrated AI solutions to boost productivity and adoption across enterprise CMS products. Proven track record of delivering high-impact features, improving performance, and leading cross-functional teams to successful end-to-end product delivery.

Professional Experience

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 Starter App deployment pipeline using AWS API Gateway, SQS (with DLQ handling), and Lambda integrations, enabling isolated feature testing for stakeholders and **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

[**Virtual IG – Real-time Interview Platform**](Virtual IG) | *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**](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

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

Achievements

- **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

Mumbai University, Vasai, India
Bachelor of Engineering in Information Technology, **8.76 CGPA**

Key Skills

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