Hitesh Shetty

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Professional Summary

Senior Software Engineer specializing in full-stack product development and system design, with expertise in React, TypeScript, Node.js, and distributed backend systems. Experienced in architecting modular platforms (Module Federation, microservices), optimizing performance of complex editors, and integrating AI into CMS workflows. Adept at balancing hands-on coding with architectural ownership, cross-team collaboration, and end-to-end product delivery.

Professional Experience

Contentstack, Virar, India

Senior Software Engineer 2   *Feb 2024 – Present*
- Led development of the flagship Visual Editing Platform using **Module Federation**, enabling secure real-time inline editing with **iframe sandboxing** and **post-message communication**, and optimized performance with **React Query**.
- Built a robust testing infrastructure with **React Testing Library** and **Playwright** for E2E, integrating Slack alerts to reduce regression issues and accelerate debugging.
- Built an automated Starter App deployment flow for feature testing in isolated playgrounds, using **AWS API Gateway** for public endpoints, **SQS** for inter-Lambda messaging, **DLQ** for error handling, and Slack integration for real-time status updates and logging.
- Developed the Audience Insight App by integrating CDP data and delivering advanced visualizations using **Highcharts** and **D3.js**, providing actionable insights to customers.

Senior Software Engineer 1   *Feb 2023 – Feb 2024*
- **Led the first AI integration within the CMS**, leveraging **OpenAI APIs** to enable content generation. Designed and hosted a secure backend proxy to handle API key protection, streaming responses, and ensure reliability at scale.
- Modernized Preview Services by implementing dedicated **REST and GraphQL APIs** in **NestJS**, integrating schema introspection and optimized query handling for scalability, while leveraging **gRPC** for data fetching and enforcing Role-Based Access Control with **OPA policies**.

Software Engineer 2   *Feb 2022 – Feb 2023*
- Optimized RTE document performance by applying a Copy-on-Write (CoW) strategy and restructuring APIs, reducing response times by **61% for medium content** and **94% for large content**.
- Architected and delivered **commenting support** in RTE, designing backend APIs and UI workflows that allowed users to comment, reply, and resolve feedback in real-time.

Associate Software Engineer   *July 2021 – Feb 2022*
- Designed and implemented backend architecture for a JSON-based Rich Text Editor, with block-structured diff storage, versioning, and optimized **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, driving adoption across internal teams and external developers.
- **Built a lightweight image editing app** with advanced features (crop, rotate, focal point selection), improving content customization in the CMS.

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, MS 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)*
- **Engineered 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, now supporting **1,000+ concurrent users daily** with high reliability.

Selected Projects

Virtual IG – Real-time Interview Platform | *NestJS, WebSockets, Yjs, Slate.js, and React*
- Developed a collaborative coding platform for remote technical interviews, featuring a real-time editor.
- Enabled live, multi-user code editing without screen sharing, improving interview experience for both interviewer and candidate.
- Supported private rooms with shareable links, enabling seamless setup for interviews, pair programming, and collaborative coding sessions.

Offline Detector (Open Source) | *Typescript*
- Built and published an open-source package to provide reliable offline/online detection in browsers, addressing inconsistencies across Chrome, Firefox, and Safari.
- Designed with a lightweight API and fallback strategies to ensure resilience in real-world network conditions.
- Published on npm, with clear documentation and example integrations for developers.

Open Source
- **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
- **Winner of Devfest 2023**: *Built a 3D immersive asset editor, improving the experience for 3D assets.*
- **Winner of Security bug bounty 2023**: *Reported a high-severity vulnerability in the production system.*
- **Winner of VCET National Level Project Showcase:** *Blockchain-based certificate verification system preventing counterfeiting.*

Education

Mumbai University, Vasai, India   *Aug 2017 - June 2021*
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, Microservice, 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