

# SAURAV KUMAR

Senior Software Engineer

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## PROFESSIONAL EXPERIENCE

### Morphic Films – Founding Engineer; Remote

Aug 2024 – Present

- Architected real-time collaboration system using Yjs, Hocuspocus, and Redis, handling 1M+ objects across thousands of canvases with <0.01% data loss during migration
- Built a browser-based video editor with OPFS enabling smooth 4K playback, implementing transitions that match FFmpeg output frame-for-frame
- Designed the AI chat system twice—first in-app, then extracted into a reusable library—now powering 1.3M+ generations across the platform
- Created canvas history with cross-client undo/redo that syncs generation state; migrated the renderer to WebGL/WASM, serving 226K+ canvases
- Led Svelte 4 → 5 migration across 3000+ files, upgrading Storybook, tests, and dependencies along the way
- Owned system design for four core systems (Chat, Compose, History, Sync Server) in a 6-person team

### ZKX – Frontend Engineer; Remote, London

Jan 2024 – Aug 2024

- Revamped the website to a highly animated experience using GSAP and Framer motion, resulting in ~15% conversion increase
- Designed and implemented the referral program using Solidity smart contracts through Ether6 and Starknet accounts; increasing the trading volume by \$15 million per month
- Launched the airdrop and staking program through Solidity and Cairo smart contracts, leveraging Ether6 and Starknet to distribute over 6 million ZKX tokens to users within a month
- Implemented multi-pro accounts on Starknet account, achieving seamless integration between L3 chain, Starknet L2, and Ethereum L1; contributed an additional \$5 million in trades
- Transformed the order book by deploying sophisticated caching, memorization, and refined algorithms, enabling over 10 million monthly orders while slashing UI rendering times by 60%
- Built a tailored web socket client for UI to handle authentication, caching, and parsing, cutting app re-rendering times by 40%, translating to a reduction of over 5 seconds in rendering
- Decreased the startup and reloading time on development setup; saving up to 2 hours daily per developer by moving to Vite on development side from webpack

### Quicksell – Full Stack Engineer; Mumbai, IN

Aug 2022 – Jan 2024

- Architected and developed the Doubleclick desktop web app MVP using React; deployed with CI/CD on Bitbucket pipelines, S3, CloudFront Distributions, Route 53 and Nginx within 40 days
- Developed mobile web app with cross platform messaging using React, Android Webview and Safari controller saving ~4 weeks development time for Android & iOS teams
- Hired, managed and mentored a team of 3 developers, who maintained the Doubleclick after handover
- Engineered an invoicing system with 8 payment gateways and GST API; using Zoho Invoices, SQS, Redis, PostgreSQL, and SNS within a month; saving 300-hours/month for the finance team
- Created a payment service with NestJS, SQS, SNS, Redis, PostgreSQL, and Web sockets in the last quarter; resulting in ~40% more payment success rates
- Architected and implemented a holistic analytics system integrating Sentry, Hotjar, MS Clarity, and Google Analytics; enhanced error tracking and data insights, resulting in a ~70% increase in MRR
- Spearheaded the development and implementation of webinar system for marketing, acquisition and retention teams using Calendly, Zoom, and Zoho CRM driving approximately 70% of all MRR
- Analysed more than \$200K of monthly revenue to optimize features, and tests; and to get financial data for finance team, investors and founders

### Mason – Technical Staff (Frontend Engineer); Remote, Bangalore

Jan 2021 – Jul 2022

- Ported a big legacy app from React 14 class components and JavaScript to React 17 functional components and TypeScript reducing bugs by 30% in 3 months
- Ported from webpack 3 to 4 with better chunk splitting in production resulting in ~50% bundle size decrease and 60s faster loads within 3 months
- Engineered a flexible Automations UI for Shopify events, facilitating user content updates based on metrics such as hourly sales; scaling to hundreds of Automations in a month
- Created scalable social media connectors using OAuth 2 and GraphQL to create, edit and send automated posts to social media platforms

## SKILLS & INTERESTS

**Languages:** JavaScript, TypeScript, Python, Rust, C, Go

**Tools:** Git, AWS, SQS, SNS, Route 53, EC2, S3, Lambda, Beanstalk, CloudFront, Nginx

**Technical:** HTML, CSS, Sass, React.JS, React Hooks, Vue.js, Next.JS, NestJS, Node.js, Express.js, PostgreSQL, Ether.js, WebSockets, Jest

**Interests:** Blockchain, Web3, Smart contracts, Distributed Systems, SDK, UX, Product Management, Accessibility, TDD, Scalability, GSAP

## EDUCATION

IIT Kanpur | B. Tech (EE)

Kanpur, IN