KARAN HUDIA

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Staff Software Engineer | Senior Frontend Engineer | Technical Lead

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SKILLS

Languages:	HTML, CSS, JavaScript (ES6), TypeScript
Technologies:	React.JS, React Native, Next.js, Redux, NestJS, NodeJS, HTTP, REST, GraphQL, AJAX, SQL, Eslint, Cypress, Jest, Playwright, React Query, Yarn, pnpm, nx, webpack, Git, Cloudflare, JIRA, Figma, Docker
Concepts:	Data Structures and Algorithms, System Design, Coding, Debugging, Object-oriented programming

EXPERIENCE

Technical Lead | Senior Software Engineer Nov 2021 - Jul 2024
Grover Group GmbH *Berlin, Germany*

- Architected and implemented a scalable, microservices-based search indexing system with NestJS, PostgreSQL, and Kafka, reducing search latency from 800ms to 80ms, leading to a €600k annual revenue boost.
- Led a team of 4 developers to build and publish a reusable website header as an npm library, enabling seamless integration across multiple web apps. Conducted code reviews to ensure high-quality, well-architected, and testable code.
- Redesigned and maintained the homepage, product listing, favorites page, and search functionality, resulting in a 20% increase in user engagement and a 30% improvement in page load time.
- Improved cross-browser compatibility and usability across multiple devices, ensuring responsive, mobile-first web development.
- Integrated SEO enhancements and web performance tuning techniques, boosting search visibility and organic traffic.
- Implemented Unit and Integration Testing using Jest, Playwright golden screenshots, and React Testing Library, increasing test coverage from 5% to 55% by adding 1000+ tests, ensuring greater reliability and stability.
- Led an initiative to reduce TypeScript errors from 900+ to fewer than 50, improving code maintainability and reliability.
- Optimized GraphQL gateway to a supergraph, refining CI/CD for 34+ services, achieving a 10X performance boost in system benchmarks.
- Led innovation in frontend architecture by driving GraphQL Codegen adoption across 5+ services, automating type-safe API interactions, reducing manual schema maintenance, and accelerating development.
- Mentored junior developers through pair programming, contributed to documentation, and actively participated in Agile software development, including sprint planning and retrospectives, to deliver fast, efficient solutions.
- Contributed to the migration of Grover's mobile app to React Native, improving conversions and performance.

Front-end Web Developer Dec 2019 - Oct 2021
MOIA GmbH *Hamburg, Germany*

- Migrated 3000+ lines of code from JavaScript to TypeScript, reducing bugs by 30%.
- Led the transition of 100+ form components, enhancing state management and cross-browser usability.
- Collaborated with data scientists to design UI/UX for pricing configs, driving 80% revenue growth in 2 years.
- Integrated HERE maps, adding custom search and polygon CRUD, increasing campaign-driven revenue by 17%.
- Applied web performance optimization techniques, such as lazy loading and bundle optimization, to enhance application responsiveness.

Frontend Engineer Jun 2018 - Nov 2019
Goodgame Studios *Hamburg, Germany*

- Designed high-level architecture and core features to create a web version of Big Farm Mobile Harvest game engine using ReactJS, Redux, and RxJs, a game with over 50M+ downloads on Google play store.
- Optimized UI workflow via bash scripts and CI/CD, enabling real-time design-development feedback.
- Focused on browser tuning and optimization techniques, improving frame rates and reducing load times.

Software Engineer I | Software Engineer II   Jan 2016 - May 2018
QuarkXpress Publishing R&D Pvt. Ltd   *Mohali, India*

- Developed an adapter component library on npm, bridging CEF and web frontend development.
- Implemented AOT (Ahead-of-Time) compilation using Webpack and Rollup, achieving a 5X performance boost.

PROJECTS

Github Actions Builder (In progress)- Developing a GitHub Actions visualizer to build, simulate, and debug workflows before execution. Supports caching, artifact management, and error detection to improve CI/CD efficiency. Built with Next.js, TypeScript, and D3.js. (Live Demo)

Peerfolio- Built a Glassdoor-like platform for individuals to rate and review mentors, interviewers, and colleagues. Integrated LinkedIn profiles, scoring system, and review aggregation for transparency. Developed with Next.js, TypeScript, and PostgreSQL. (Live Demo)

OTP Trust- Built a React Native app for securely sharing OTPs with friends and family. Integrated AI-based categorization and end-to-end encryption for privacy. (Play Store)

Lottie Animation Editor- Built a real-time Lottie animation editor using ReactJS, Node.js, socket.io, fastify, enabling multi-user collaboration for seamless editing. (Live Demo) (Frontend GitHub) (Backend GitHub)

The Faces of Tomorrow- Built a scalable web app using ReactJS, MaterialUI, Cloudinary, and TypeScript, and a robust backend with Node.js, Hasura, Auth0, ZOHO API, and GraphQL. (GitHub)

EDUCATION

Bachelor of Engineering (B.E.) in Information Technology, UIET, Chandigarh   2012 - 2016