

# Roshan Kumar Sinha

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## SUMMARY

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**Senior Software Developer (Full-stack)** with 4+ years' experience designing and delivering scalable, high-performance web applications and backend services using **React**, **TypeScript**, **Node.js**, **GraphQL**, and **modern JavaScript tooling**.

## SKILLS / TOOLS

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**Languages:** JavaScript, TypeScript, HTML, CSS, C, C++

**Frameworks/Libraries:** React, Redux, React Query, React-Hook-Form, Zod, Node.js, Express.js, GraphQL, GatsbyJS, Tailwind, Storybook, Jest, Vitest, Cypress, Playwright

**Tools & Platforms:** GitLab CI/CD, AWS Lambda, Google Tag Manager, Google Analytics, Postman, HubSpot, Zendesk, Sentry, Webgains, CrowdIn, Optimizely, StatSig

**Databases/CMS:** Contentful, Algolia, IndexedDB

**AI Tools:** ChatGPT, GitHub Copilot, OpenAI API, CodeRabbit, Cursor

**Others:** API Design, Microservices, Authentication & Authorization, Serverless Architecture, Search Implementation, Login/Registration Flows, Order Management, Data Structure and Algorithm, Problem Solving, Performance Optimization, Security Best Practices, System Design

## EXPERIENCE

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### Cimpress Technology Pvt Ltd

January 2023 – Present

#### *Senior Software Developer (Full-stack)*

- Architected and delivered high-impact **Multiple Design** feature enabling customers to upload unique designs for different quantities, leveraging **React**, **TypeScript**, **Redux**, **React Query**, and **Contentful**; boosted design flexibility and increased customer satisfaction by **25%**.
- Designed and maintained scalable backend services and APIs using **Node.js**, **Express**, and **GraphQL** supporting key product features such as order management, authentication, and re-order flows.
- Engineered end-to-end **Login and Registration** workflows with secure **JWT**-based authentication, robust validation via **Zod**, and seamless integrations with **Google Analytics**, **GTM**, and **dataLayer** for event tracking.
- Implemented serverless backend functions on **AWS Lambda** to support real-time business logic including affiliate marketing automation and session tracking.
- Designed and executed multiple **A/B tests** using **StatSig** to optimize the registration funnel, including CoC-based auto-fill that improved form completion by **18%**.
- Implemented performance optimization strategies such as **lazy loading**, **bundle size reduction**, and **React memoization**, improving page load speed and Core Web Vitals scores across key flows.
- Enhanced the **Order Management System** and **Order Detail Page**, integrating backend APIs with **Zendesk** to reduce customer support tickets by **30%**, while ensuring accessibility and responsive UI with **Tailwind CSS**.
- Led a cross-functional team of **3 developers**, driving technical decisions, performing detailed **code reviews**, mentoring on **best practices**, and ensuring on-time delivery through **Agile Scrum** processes.

### Cimpress Technology Pvt Ltd

August 2021 – December 2022

#### *Software Developer (Full-stack)*

- Designed and implemented a high-performance **Search and Auto-suggestion** experience using **Algolia** with a custom **Algolia-Gatsby plugin**, boosting product discoverability by **35%** and reducing bounce rate.
- Developed and maintained backend microservices using **Node.js**, **Express**, and **AWS Lambda** to handle affiliate marketing workflows and session tracking, reducing manual setup time and improving reliability.

- Revamped the **Website Navigation** by restructuring modular **React** components and optimizing **Contentful** content modeling, reducing DOM elements by **40%**, improving **First Contentful Paint (FCP)** and overall **Core Web Vitals**.
- Applied **performance optimization techniques** including code-splitting, image optimization, and **React.memo**, resulting in noticeably faster page load times and better Lighthouse scores.
- Implemented Safari-compatible **Intelligent Tracking Prevention (ITP)** handling using **Express** and cookies, improving cross-browser session tracking accuracy by **20%**; deployed serverless on **AWS Lambda**.
- Built secure **authentication flows** with cookies and token-based validation, ensuring data privacy and compliance with modern browser policies.
- Strengthened system reliability by implementing comprehensive test coverage using **Playwright**, **Cypress** (E2E), and **Jest/Vitest** (unit/integration), cutting production issues by **45%**.
- Mentored junior developers through **code reviews**, pair programming, and system design discussions, enhancing team delivery quality and consistency.

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April 2021 – July 2021

### *Internship*

- Migrated large codebase from **JavaScript** to **TypeScript**, increasing maintainability, type safety, and reducing runtime bugs by **25%**.
- Contributed to reusable **React component library**, improving code reusability and speeding up feature delivery cycles.

## ACHIEVEMENTS

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- Received **early promotion** for **impactful contributions** that **boosted feature delivery** and **team performance** across projects.
- Won 1<sup>st</sup> prize in the department Hackathon by developing **CodeRabbit**, an AI-powered code review tool that automates code summaries and reviews, reducing manual code review effort by over **60%**.
- Achieved a **CodeChef rating of 1675** and solved **500+ Data Structures & Algorithms** problems across multiple platforms, strengthening problem-solving skills.
- Created and shared detailed **developer notes** on **React, JavaScript, System Design, and DSA**, on my GitHub benefiting a large community of developers.

## EDUCATION

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Bangalore Institute of Technology, Bangalore

2017 – 2021

*Bachelor of Technology in Computer Science and Engineering*