

BASIT QAYOOM CHOWDHARY

Software Engineer - Frontend Platform & Architecture

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#) | [LeetCode](#)

PROFESSIONAL SUMMARY

Software Engineer with 3+ years of experience designing and shipping high-performance, scalable frontend platforms that serve over 1 million daily active users. Specialized in React.js, TypeScript, Next.js, and micro-frontend architecture (Module Federation), with a strong track record of measurable impact: 83% bundle size reduction, 67% faster page load times, and platforms generating revenue. Experienced in end-to-end product delivery - from system architecture and SDK development to design systems, performance engineering, and production monitoring. Adept at establishing engineering standards and driving developer productivity across distributed teams. Seeking a challenging senior-level engineering role at a global technology company.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Go, C, C++

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Framer Motion, Storybook, Module Federation, Micro-Frontends, StencilJS, Lit.dev

Backend / APIs: Node.js, Express.js, RESTful APIs, WebSockets, Firebase, MongoDB

Build Tools: Vite, Webpack, Rollup, ESBuild, RsBuild, CDN Optimisation, Service Workers

DevOps & Cloud: Git, GitLab CI/CD, Docker, Google Cloud Platform

Testing & Observability: Jest, Mocha, JMeter, Postman, Sentry, Core Web Vitals, Lighthouse

Concepts: Micro-Frontend Architecture, Design Systems, SDK Design, Performance Engineering, Security Auditing, Accessibility (WCAG / a11y), OOP, Data Structures & Algorithms

PROFESSIONAL EXPERIENCE

Software Engineer II | Physics Wallah | Noida, India

Jul 2023 - Present

India's largest ed-tech platform, serving 20M+ learners nationwide.

- Architected and shipped a real-time mentorship communication platform powering the company's mentorship business line. Delivered WebSocket-based messaging, Agora SDK audio/video calling with screen sharing, voice messages, file uploads, and automated read receipts. Engineered a modular Container-Presenter UI backed by custom React hooks managing session timers, monetization workflows, and complex interaction states.
- Revamped the LMS Architecture by leading the full migration of the LMS from a legacy iframe-based monolith to a micro-frontend architecture using Module Federation, enabling independent deployments, modular team ownership, and improved scalability. The platform now handles 1.05M daily active users (DAU) on the web.
- Reduced frontend bundle size by 83% (12 MB to 2 MB) and cut initial page load time by 67% (15 s to under 5 s) through Module Federation, CDN-based asset delivery, service-worker caching, code splitting, and asset-level compression.
- Designed and delivered a company-wide Design System and UI Component Library with multi-theme support, CSS Modules, and Storybook documentation, eliminating duplicated UI development effort across product teams.
- Built and maintained a suite of in-house SDKs covering authentication, API clients, feature flagging, contextual configuration, and analytics - standardising integrations across all micro-frontends, reducing integration defects, and improving system cohesion.
- Engineered a Core Web Vitals auditing and reporting pipeline to continuously collect and analyze performance metrics across key user flows, enabling proactive detection of regressions and data-driven

benchmarking; integrated Sentry for centralized error monitoring and tracking, and established frontend engineering standards (coding conventions, semantic versioning, code review workflows, and reusable boilerplates) across multiple repositories while conducting performance and security audits for micro-frontend applications, improving stability, maintainability, and overall code quality.

Project Intern | Indian Institute of Technology (IIT) Ropar | Punjab, India Dec 2021 - Jan 2022

- Developed a data-driven simulation model to optimise chemical process workflows, achieving a 20% improvement in process efficiency through statistical analysis and simulation techniques.
- Proposed a resource management strategy based on real-time utilisation data, with demonstrable potential to reduce operational costs and improve process sustainability.

EDUCATION

Bachelor of Technology (B.Tech), Chemical Engineering 2019 - 2023

National Institute of Technology Srinagar (NIT Srinagar) | CGPA: 8.06 / 10

ACHIEVEMENTS & LEADERSHIP

- Awarded “Star Performer of the Month” at Physics Wallah (July 2025) for delivering high-impact, in-house engineering solutions that measurably improved platform performance and developer productivity.
- Nominated for “Champion of the Quarter” at Physics Wallah in recognition of consistently outstanding cross-functional engineering contributions.
- GATE 2025 Qualified - Data Science and Artificial Intelligence.
- Awarded Best Delegate (International Press) at Model United Nations, NIT Srinagar, recognised for research rigour, communication clarity, and professional integrity. [Link](#)
- Led the Technical Club at NIT Srinagar, organising workshops, hackathons, and technical sessions for 200+ participants, driving campus-wide technology adoption and collaborative innovation.
- Presented independent research on wood-based nanotechnology membranes for micro- and ultrafiltration applications at the 2023 Nanotechnology for Better Living Conference (NIT Srinagar, SKUAST, IIT BHU). [Link](#)