

BASIT QAYOOM CHOWDHARY

Software Engineer II — Frontend Platform & Architecture

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PROFESSIONAL SUMMARY

Frontend Software Engineer with 3+ years building high-performance, scalable platforms serving 1M+ daily active users. Delivered an 83% bundle size reduction and 67% faster page load times at Physics Wallah, India's largest ed-tech platform. Specialised in React.js, TypeScript, Next.js, micro-frontend architecture (Module Federation), SDK design, and design systems. Experienced in end-to-end product delivery including system design, cross-functional collaboration, performance engineering, code review, and mentoring. Seeking a senior-level frontend 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, GraphQL, 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: System Design, Micro-Frontend Architecture, Design Systems, SDK Design, Performance Engineering, Accessibility (WCAG / a11y), Security Auditing, OOP, Data Structures & Algorithms, Agile / Scrum

PROFESSIONAL EXPERIENCE

Software Engineer II | Physics Wallah | Noida, India

Jul 2023 – Present

India's largest ed-tech platform — 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, monetisation workflows, and complex interaction states.
- Led 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 serves **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% (15s to under 5s) 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, full WCAG / a11y compliance, CSS Modules, and Storybook documentation — eliminating duplicated UI development effort across product teams and improving accessibility standards.
- 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 analyse performance metrics across key user flows, enabling proactive regression detection and data-driven benchmarking. Integrated Sentry for centralised error monitoring.
- Established frontend engineering standards across multiple repositories: coding conventions, semantic versioning, code review workflows, and reusable boilerplates. Conducted performance and security audits for micro-frontend applications, improving stability, maintainability, and overall code quality.
- Drove cross-functional collaboration with product, design, and backend teams to align engineering roadmaps with business OKRs, contributing to system design decisions and mentoring junior engineers on best practices.

EDUCATION

Bachelor of Technology (B.Tech) — Chemical Engineering

2019 – 2023

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

GATE 2025 Qualified — Data Science and Artificial Intelligence

ACHIEVEMENTS & LEADERSHIP

- Awarded **Star Performer** of the Month at Physics Wallah (July 2025) for delivering high-impact 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.
- Led the Technical Club at NIT Srinagar, organising workshops, hackathons, and technical sessions for 200+ participants, driving campus-wide technology adoption and collaborative innovation.
- Awarded Best Delegate (International Press) at Model United Nations, NIT Srinagar, recognised for research rigour and communication clarity.
- Presented independent research on wood-based nanotechnology membranes at the 2023 Nanotechnology for Better Living Conference (NIT Srinagar, SKUAST, IIT BHU).