Alok Raj

Senior Software Engineer

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🪪 PROFILE

Senior Software Engineer at **JLL Technologies** with over **5+ years** of experience specializing in **JavaScript** technologies. Passionate about the JavaScript ecosystem—including its **frameworks**, **libraries**, and development environments—with a strong inclination toward customizing and optimizing workflows. Known for tackling **complex problems** with innovative solutions and continuously exploring **new tools** and **technologies** to stay ahead in a fast-evolving tech landscape.

💼 PROFESSIONAL EXPERIENCE

JLL (Jones Lang LaSalle), *Senior Software Engineer* ⧉　　　　　　　　　　Jun 2022 – present | Bangalore, IN

1. Leading Full-Stack Development of High-Impact Modules

- Spearheading end-to-end development of three core **microfrontend** modules - **MyAnalytics**, **Dashboard Configuration**, & **Subscribe to Dashboard** - serving 500+ enterprise users.
- **Delivering e2e features across the stack** using React with TypeScript, NestJS, PostgreSQL, Redis (caching), and GraphQL - demonstrating ownership from UI to API, data modeling, and performance optimization.
- Designing and implementing **data-rich dashboards** combining bar, line, scatter charts, and KPIs for real-time CRE insights using **Highcharts**.
- Led and developed backend NestJS microservices for each module with **PostgreSQL, TypeORM, and Liquibase**, ensuring scalable schema management.

2. Engineering Impact Across Frontend Architecture, Performance, and DevOps

- Architected **Scalable Microfrontend Ecosystem**: Designed and developed an internal MFE CLI tool to bootstrap new apps with pre-configured best practices (Jest, ESLint, CodeClimate, commit-lint), reducing **onboarding time by 80%** and improving developer consistency across **10+ teams**.
- **Cross-Functional Contributor**: Delivering features and enhancements across **10+ MFEs** and a host container app; **collaborating** with backend teams (NestJS, Java, Python) via **GraphQL, REST API** to drive full-stack solutions.
- **Performance Optimization with Business Impact**: Engineered efforts that halved **LCP (~10s → ~5s)**, improving perceived speed and user engagement through render profiling, bundle optimization, and API refinements.
- **CI/CD & DevOps Ownership**: Managed the migration of **25+ GitHub repos** and Docker images to modern CI/CD pipelines, automated release notes, and semantic versioning, reducing release overhead by **30%**.
- **Engineering Culture & Enablement**: **Mentoring** junior engineers, conducting **PR reviews**, actively participating in guild sessions as a speaker, and shaping platform strategy around **performance**, **testing**, and **MFE governance**.
- **Tech stacks:** React.js (TypeScript), JavaScript, Material-UI, Highcharts, Postal.js, Storybook, NestJs, PostgreSQL, Redis, TypeORM, GraphQL, Strapi, Microfrontend, Web-accessibility, Docker, Jest

Globant, *Software Engineer 2* ⧉　　　　　　　　　　　　　　　　　Mar 2021 – Jun 2022 | Pune, IN

- Led the development of a cross-framework UI library leveraging **StencilJS** to deliver reusable and **scalable web components**.
- Contributed extensively to developing a **banking web application**, focusing on **accessibility** and ensuring compliance with WCAG standards.
- Played a key role in the project lifecycle, starting from the discovery phase to leading the development of **Micro Frontend** applications using **React.js** and **Module Federation**.
- Actively **mentored** freshers and peers on cutting-edge JavaScript technologies as part of **Globant's studio initiative**, fostering team skill development and knowledge sharing.
- **Tech stacks:** React.js with TypeScript, Angular 7+, Redux, RxJS, JavaScript, Web Component, StencilJS, i18n, Web Accessibility, React Testing Library, Jest

Tata Consultancy Services, *Software Engineer* ⧉　　　　　　　　　　Jun 2019 – Mar 2021 | Bangalore, IN

- Designed and implemented a **scheduler jobs microservice** using Node.js, Express, and MongoDB to automate data synchronization and notification services, and an **Angular** web application to monitor job success and failure.
- Built an **SMTP RESTful API server** replicating AWS SES's template system using Node.js, Express.js, and MongoDB, enabling seamless integration across multiple organizational projects.
- Developed a **dynamic form template system** leveraging the MEAN stack, reducing dev time by approximately **15%**.
- Created a **MongoDB migration utility** web app as a proof of concept, utilizing vanilla JavaScript to streamline data administration tasks.
- Delivered a TCS internal web application using the **MEAN stack** to manage client projects and resource allocation and efficiently perform billing-related operations.
- **Tech stacks:** Angular 7+, ReactJS, Typescript, RxJS, Node.js, Express.js, MongoDB, Microservice, Jest

GroupClap, *Software Engineer Intern* ⌁   Jan 2019 – Mar 2019 | Kolkata, IN
- Coded and maintained the company's web platform using **HTML, CSS, JavaScript**, and PHP (Laravel) for the backend.
- Worked on **frontend UI design**, API integration, and database interactions, ensuring a smooth user experience.
- Contributed to an independent web project aligned with company requirements.
- Collaborated with the team to enhance platform features aimed at improving the fusion of education and leisure.
- Gained hands-on experience in **full-stack development**, problem-solving, and agile development workflows.

⊕ SKILLS

Front-end: React.js, Angular 2+, Vue.js, Redux, Material-UI, Web-Component, Stencil.js, Tailwind, Storybook, HTML, CSS

Back-end: NodeJs, NestJs, ExpressJs, REST API, GraphQL

Full-stack: Next.js, MERN, MEAN, MEVN

Language: JavaScript, TypeScript

Database: MongoDB (Mongoose), PostgreSQL (TypeORM), Redis

Architecture & Design Patterns: Microservices, Microfrontends, Monolith, Event-Driven Architecture, Hook Pattern

Others: Docker, Devops, Web accessibility, PWA, Git, AGILE, Unit Testing, Jest, Playwright, Open-source enthusiast

Soft-skills: Excellent communication skill, Team Work Spirit, Leadership skill

⊗ EDUCATION

Bachelor of Technology, CSE, *MCKV Institute of Engineering* ⌁   2015 – 2019 | Kolkata, IN
A CSE graduate with an aggregate of **8.08 CGPA**, having a good understanding of the Software Development Life Cycle.

⊛ ACTIVITIES & ACHIEVEMENTS

Co-Founder @OpenDevs: ⌁ Delivered 5+ OSS projects and managing a 3K-subscriber **YouTube** channel on software eng.

Recognition: Received **2 Star Performer awards** for driving performance improvements and delivering a key epic e2e.

Recognition: Won **3 Fantabulous awards** at Globant and **10+ awards** at TCS for consistent excellence.

Instructor: Conducted **MongoDB training** sessions for peers at TCS as a technical instructor.

TechBairn: ⌁ Trained **30+ students on MERN stack** via OpenDevs in collaboration with Tech Bairn.