KUSHAL KUMAR K A

SOFTWARE ENGINEER

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PROFESSIONAL EXPERIENCE

Software Engineer | **Motorola Solutions India** | Bengaluru   Aug. 2024 - Present

- **Led & Architected** a scalable, modular **React.js (TypeScript)** component library using **Vite**, improving reusability by **35%** and cutting development time by **20%** across multiple Motorola applications; enforced UI consistency and reduced design debt.
- Showcased rapid adaptability within Motorola's NX-based **monorepo architecture**, configured **CI/CD** pipelines for tests, build, deploy and create mock dev server, streamlining the development process by **30%**.
- Built a serverless content delivery system with **AWS Lambda, S3, and CloudFront, reducing UI asset load** times by **70%** and boosting global **scalability, resilience, and latency** for **Motorola users**.
- Ensured **WCAG 2.1 accessibility compliance** by implementing semantic HTML, keyboard navigation, and ARIA attributes, resulting in a **25% improvement** in Lighthouse **accessibility scores** across key user flows.

Software Developer | **Deloitte US India** | Bengaluru   Nov. 2021 - June 2024

- Served as a key developer of **Western Union Bank (WU)** project to build a web and mobile interfaces for ordering virtual/physical prepaid cards, efficient state management using **Context API** and **Redux toolkit**.
- Optimized **UI performance** by **40%** and cut data over-fetching by **60%** by integrating **RESTful** and **GraphQL APIs**, streamlined workflows using **React Query**, **Hook Form**, and **Ag-Grid**.
- Implemented **SEO** and **page performance optimizations** in a **ReactJS SPA** by introducing **lazy loading**, **reducing bundle size**, resulting in a 20% uplift in Lighthouse **SEO** score. Used **styled-components** for styling.
- Engineered user interfaces using **React.js** and leveraged **Highcharts** for innovative **data visualization**, achieving a remarkable **70% enhancement** in transforming data representation methodologies for **Hitachi**.
- Independently designed and developed reusable **React.js** components without wireframes, proactively configuring **webpack** to boost user interaction by **45%** and help secure **$1.3M** in client funding.
- Guided **2 junior colleagues** technically, resulting in a **30% improvement** in team productivity and **code quality**.
- Proficient in designing schemas and managing data using SQL (RDBMS) and MongoDB (NoSQL).

Trainee Developer | **Deloitte US India** | Bengaluru   Jan. 2021 - Nov. 2021

- Worked on multiple **POCs** as part of training using React.js and TailwindCSS.
- Developed an online **quiz portal** for internal employees of Deloitte to take mock tests on the certification exams with randomized questions and options to improve **user engagement and experience**.

TECHNICAL SKILLS

Programming	C++, Java, JavaScript, GoLang, Python, Data Structure & Algorithms, Problem Soving
Frontend	React.js, TypeScript, JavaScript (ES6+), Redux, Context API, React Query, TailwindCSS, Styled-Components, Webpack, Vite, Ag-Grid, Highcharts
Testing & DevOps	Jest, GitHub Actions, NX Monorepo, CI/CD, Babel
APIs & Data	REST API, GraphQL, Axios, MySQL
Cloud & Infra	AWS Lambda, S3, CloudFront
Collaboration	Git, Jira, Agile, Figma (for UI alignment), Code Reviews, Mentorship

PROJECTS

React Resilience Monkey v1 | **Motorola Solutions** | Self-motivated

React.js, Tailwind CSS, Axios Interceptors, MongoDB   Apr. 2025

- Developed **React Resilience Monkey**, a fault injection tool for **React apps** that randomly **triggers** component crashes, **API failures**, and network **disruptions to validate** app robustness and error boundary effectiveness during development and testing phases.

ACHIEVEMENTS

- 2024: Received **gift coupon** for my performance within 45 days **of Motorola Solutions India**.
- 2023: Twice received **goodies** for my performance in the **WU Project in Deloitte US India**.
- 2022: Received a coveted **Spot Award (10K cash)** for my exceptional work with HITACHI in **Deloitte US India**.

EDUCATION

Visveswaraya Technological University   Graduation : Aug. 2020

Bachelor of Engineering in Computer Science   *CGPA: 7.33/10*