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# Krishna Sagar R

## Technical Architect and Frontend Lead

**Starting from the customer and working backward towards technology**

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### Professional Summary

Professional with a track record of over 12 years in commercial software development.

**8 Years** of In depth Architecture level Experience in **React.js** and **ES6+** features and build tooling including **Webpack** from more than **years** gaining in depth understanding and long term thinking. Deep expertise in Webpack and other build tools. Lead the development of robust, scalable frontend solutions for large-scale applications.

Expert level knowledge on browser rendering behavior and browser Networking and performance metrics. Knowledge on browser security best practices. Advanced proficiency in HTML, CSS, SASS etc

**Leadership Experience.** Leading a **team of 10 members**. 5 members offshore and 5 members on site. Contributed to **Agile Delivery** using flow metrics (such as cycle time, throughput, and work item age) and Scrum ceremonies (like sprint planning, daily stand-ups, and retrospectives) to accurately forecast project timelines and enhance team productivity. increased deployment speed up to 70%. Being informed with risk identification.

**Technical Advocacy:** Served as a technical advocate for 5 to 10 distributed teams in enterprise-scale IT environments. Demonstrated teams.

Proficiency in AB Testing, Web Content Management Systems (WCMS), and Search Engine Optimization (SEO) requirements for enterprise scale applications.

**Adaptability:** Proficient in seamlessly transitioning between **leadership** roles as a versatile **team player** and lead, demonstrating adaptability to diverse situations.

**Industry Expertise:** Backed by a rich background in both **e-commerce** and **fintech**, I bring a multifaceted skill set to the table.

**Customer-Centric Approach:** Skilled in creating digital and technical products with a customer-centric approach, enhancing user experience and engagement.

*In my leadership roles since 2016, I have actively fostered a team culture centered around a comprehensive architectural vision. By aligning our progress with critical business paths, I've empowered each team member to pursue their passion, resulting in the unleashing of individual strengths. By adopting this strategy, the team has demonstrated resilience through their deep knowledge, maintaining business continuity and enabling both business as usual operations and continuous innovation.*

### Technical Skills

**JavaScript (12 Years):** NodeJs and Server side **(8 Years) and** Express.js and Nest.js. 8 Years experience in **React** and Related build tooling Like Webpack **(8 Years):** Next.js, Redux, RxJs all latest features like React hooks and suspense, with Webpack. Cypress **( 2.5 Years )**. Experience with TDD and BDD approaches with Jest for Unit Testing **(7 Years):** Previously used other tools like mocha and Chai. **Observability and Application Performance monitoring ( 5 years ).** CI/CD and Git Version control **(8 Years)**. Experienced in setting up and managing Continuous Integration and Continuous Delivery pipelines. Skilled in automating the build, test, and deployment processes to ensure efficiency and reliability. **AWS Cloud (4 Years):** Proficient in using Amazon Web Services (AWS). **Azure Cloud (2 Years):** Familiar with Microsoft Azure cloud platform. **Google Cloud:** Basic

## Experience

### **Senior Software Engineer Specialized in Frontend** Allica Bank, England Feb 2022 - PRESENT

**Tech Stack:** React.js, Hooks, Context, Webpack, Jest, NodeJs, Python. **Cloud:** Azure, Application Insights, Azure DevOps, Git, Azure DevOps

- **User Analytics:** Implemented and analyzed user analytics which increased more than 10% of users to have a smoother experience.
- **UX Performance Insights:** Monitored UX performance, achieving optimal page load times under 2 seconds
- **Application Health Monitoring:** Established robust application health monitoring systems, promptly addressing 95% of issues within 24 hours.
- **Frequent Deployments:** Increased frequency of deployments by 70% with collaboration and technical enhancements to the pipelines.
- **Feature Development:** Lead the delivery of most complex features in 2.5 sprints of predictable delivery. Led the development of critical features including International payments, bulk payments, card management etc collaborating with various teams to ensure both visual appeal and seamless integration into the overall user experience.

### **Technical Architect Specialized in Frontend** TUI through Sonata Software Ltd, England June 2019 - 2021

**Tech Stack:** React.js, Redux, Context, Webpack, Jest, Enzyme, NodeJs, Python. **Cloud:** AWS, ALBs, EC2, GitLab, Git.

**Technical Architect Duties:** Oversaw technical architecture, including hiring, talent acquisition, performance reviews, and providing technical guidance to ensure the delivery of high-quality, scalable, and robust solutions. Collaborated with cross-functional teams, including SRE Team ( Site Reliability Team ), developers, and project managers, to define and implement best practices, coding standards, and architectural guidelines. Conducted code reviews, architecture assessments, and technical audits to maintain code quality and system integrity.

- **Core Framework Development:** Led the team responsible for building the core framework, ensuring alignment with the architectural vision.
- **Training and Mentorship:** Designed and conducted training for other frontend developers, promoting a full-cycle vision and enhancing their skills and understanding of the architecture.
- **Scalable Frontend Architecture:** Developed resilient, scalable, and implementable frontend architecture for enterprise-scale applications using a rapid prototype and test approach, aligning with business-critical paths. Fostered a team environment where individuals had a full vision of the architecture and pursued their passions to maximize their contributions.
- **Key Architectural Decisions:** Participated in decisions regarding key principles for future frontend architecture, ensuring a cohesive and forward-thinking approach.
- **Decentralized Team Autonomy:** Created frontend architecture that promoted the autonomy of decentralized teams, empowering them to work independently while aligning with overall architectural goals.
- **User Interface Development:** Created user interfaces and ensured their deployment to production through CI-CD pipelines, utilizing highly resilient and cost-optimized AWS cloud infrastructure. Integrated user interface layouts with content management systems like SAP's hybris WCMS, supporting seamless multi-locale functionality.

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### TUI Through Sonata Software Ltd, England **Lead Frontend Developer**

**Tech Stack:** React.js, Redux, Context, Webpack, Jest, Enzyme, NodeJs, Python. **Cloud:** AWS, ALBs, EC2, GitLab, Git. Dojo

January 2017 - June 2019

**Frontend Code Implementation:** Implemented the frontend code base in **React** and **Redux** from scratch, handling responsibilities such as performance optimization, continuous integration, unit testing, and configuring Webpack for the build system.

**Scalable Codebase Design:** Designed and implemented a scalable front-end codebase, ensuring robustness and

efficiency.

**Frontend Migration:** Led the migration of the frontend to React and Redux within given timelines, ensuring smooth transitions and adherence to project schedules.

**Continuous Integration:** Configured the code base and continuous integration for the frontend, utilizing code quality tools to support the team and business in moving towards continuous delivery.

**Team Motivation and Innovation:** Inspired and motivated team members towards innovation and design thinking, fostering a creative and productive work environment.

**Code Quality and Testing:** Ensured the maintenance of high-quality code and effective unit tests, helping the team adhere to best practices.

**Cross-Functional Coordination:** Coordinated with Analytics, SEO, and UX teams to understand and integrate their requirements during the migration process.

**Automation of Quality Checks:** Automated front-end quality and performance checks to reduce defects and increase the speed of development.

**Team Coordination:** Coordinated both offshore and onsite teams to ensure seamless collaboration and project success.

## **Sonata Software Ltd -Hyderabad, India Frontend Developer** February 2015 - 2017

### **Worked in multiple projects with multiple clients**

Designed a flexible and scalable codebase architecture to facilitate rapid response to changes, enabling the development and deployment of working software within a timeframe of a couple of weeks to a couple of months.

Accelerated the delivery of user stories by ensuring high-quality code and robust unit test coverage, consistently meeting the standards set by peer reviews.

## **WAANDREAMS PIXELFLOW SYSTEMS, Hyderabad, India - Frontend Developer**

2012 to January 2015

Developed rich front end applications

Developed Java applications with frameworks like structures.

### **EDUCATION**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA - B.Tech Electronics and Communication Engineering**

2012