

Prince Paulose

STAFF FRONTEND ENGINEER

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Kerala, India

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PROFESSIONAL SUMMARY

Staff-level Frontend Architect specializing in high-scale web platforms and AI-driven user experiences. Expert in driving technical strategy across the frontend stack, from modular micro-frontend ecosystems to specialized BFF layers and Generative AI integrations. Proven track record of leading cross-functional engineering teams at global organizations like IBM, with a focus on performance, scalability, and modern AI workflows.

STAFF FRONTEND EXPERTISE

FRONTEND ENGINEERING

React, Next.js, TypeScript, Micro-frontends, Module Federation, Design Systems, Core Web Vitals, Accessibility

AI & INNOVATION

Generative AI, LLM Integration, AI Agents, Prompt Engineering, Vector Search

ARCHITECTURE & TOOLING

System Design, BFF Pattern, GraphQL, Vite / Webpack / Rollup, CI/CD Automation, IaC

FULL STACK & EXCELLENCE

Node.js / Spring Boot, SQL / NoSQL Databases, Testing (Jest/RTL/Puppeteer), Docker / AWS

PROFESSIONAL EXPERIENCE

IBM India Software Labs

May 2024 – Present

Senior Software Developer

Kochi, India

- Architected a high-performance Backend-for-Frontend (BFF) layer using Node.js and GraphQL, optimizing data orchestration for React-based data product management.
- Built and integrated an AI-powered conversational agent using LLMs and AI agents, optimizing conversational flow and response accuracy through prompt engineering.
- Established enterprise-grade React architecture with TypeScript, defining foundational patterns for state management and modular frontends used across the ecosystem.
- Developed automated frontend workflows and visual regression testing suites using Puppeteer, increasing build reliability and delivery confidence.
- Standardized frontend testing strategies including Unit, Integration, and E2E with Jest and Puppeteer, reducing production-level defects by over 60%.

Capgemini

Mar 2023 – April 2024

Lead Software Engineer

Bengaluru, India

- Technical Lead for an Incident Management Platform, overseeing a team of 5 and owning the frontend roadmap from conceptualization to global production release.
- Architected a scalable Micro-frontend ecosystem using React and Module Federation, enabling independent shipment of complex reporting and management features.
- Developed data visualization dashboards with Power BI integration, bridging complex analytical datasets with interactive frontend components.
- Led an interactive feature-discovery platform with in-app guides, increasing user engagement and feature adoption by 35%.

Toobler Technologies	Feb 2019 – Feb 2023
Senior Software Engineer	Kerala, India
<ul style="list-style-type: none">Architected a low-latency Interactive Event Management Platform utilizing WebRTC and Socket.io, supporting 10k+ concurrent users with real-time video/messaging.Built a modular Course Creation engine with a drag-and-drop React architecture, enabling rich content authoring for a global education platform.Designed real-time IoT Analytics Dashboards processing 5k+ events/sec, focusing on high-performance React visualization and data streaming.Led development of an offline-first React Native mobile app, implementing custom synchronization logic for mission-critical field data.Implemented scalable cloud infrastructure on AWS to handle multi-region traffic spikes while maintaining performance budgets for frontend consumers.Mentored engineering teams and established standardized full-stack best practices, focusing on frontend-first architectural thinking.	
IPSR solutions Ltd, Kochi (Internship)	Aug 2018 – Jan 2024
Python Developer Intern (Django)	Kochi, India
<ul style="list-style-type: none">Built backend architectures and full-stack features using Python and Django.	
<h2>📁 KEY ENGINEERING PROJECTS</h2> <hr/>	
Smart Expense Tracker Platform	Full Stack Ecosystem
React, Redux Toolkit, Java, Spring Boot, Docker	
Enterprise financial ecosystem leveraging decoupled microservices and a high-performance React frontend. Features secure JWT auth, event-driven consistency, and Redux Toolkit state management with normalized caching.	
Stock Market Signals App	Real-time Analytics Dashboard
Node.js, React, TypeScript, Socket.io, MongoDB	
Real-time trading signal dashboard for Nifty 50, featuring sub-second WebSocket updates and automated technical analysis. Includes a multi-criteria validation engine for risk/reward filtering and IST market hours enforcement.	
<h2>EDUCATION & HONORS</h2> <hr/>	
University of Calicut	
2014 – 2018	
B.Tech – Computer Science and Engineering	
GEM (Going the Extra Mile) Award	
2023	
Awarded by Capgemini for exceptional architectural ownership and delivery excellence.	
<h2>PERSONAL INFO</h2> <hr/>	
Languages: English, Malayalam, Hindi	
DOB: 9th October 1996	