

SHEMILKUMAR E A

SENIOR FRONTEND ENGINEER

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Professional summary

Frontend Engineer with 5 years of experience building **real-time, data-intensive applications** using Angular. Specialized in **WebSocket-based systems, scalable frontend architecture, and performance optimization**. Proven experience in handling **continuous data streaming, network recovery, and high-frequency UI rendering**.

Skills

Frontend Technologies:

Angular (Advanced), React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, SCSS, Tailwind CSS

Architecture & Design:

Scalable Frontend Architecture, Modular Design, Component-Driven Development, Design Systems, API Layer Abstraction

Performance Optimization:

Lazy Loading, Code Splitting, Change Detection Optimization, Bundle Optimization, Real-Time Rendering Optimization

Tools & Libraries:

Git, Figma, Vite, Angular Material

Leadership & Delivery:

Team Leadership, Agile/Scrum, Sprint Planning, Project Estimation, Code Reviews, Mentoring

Work history

Senior Frontend Developer /Technical Team Lead, 06/2023 to Current

Probeplus Innovative Solutions Pvt. Ltd. – Bengaluru, India

- Built a real-time **ECG monitoring system** using **WebSockets**, handling continuous high-frequency data streaming. Implemented **buffering and synchronization** mechanisms to recover from network interruptions and ensure accurate, uninterrupted visualization.
- Led a team of **five frontend developers**, improving sprint delivery efficiency by approximately **25%** through structured planning and code reviews.
- Solved real-time rendering challenges by **optimizing UI** updates for continuous data streams, ensuring smooth **graph visualization** without performance degradation.

- Designed and implemented a **scalable, modular Angular architecture** , reducing code duplication by approximately **40%** across multiple modules.
- Built a **centralized API service layer** , reducing redundant API handling by approximately **50%** , and improving maintainability.
- Developed **30+ reusable UI components** , reducing development time for new features by approximately **40%** .
- Optimized application performance: Reduced initial load time by **35%** , reduced bundle size by **20%** .
- Mentored junior developers and established coding standards, reducing production bugs by approximately **20%** .

Frontend Developer, 05/2021 to 06/2023

Tata Consultancy Services – New Delhi

- Developed and maintained **15+ responsive UI components** using React, JavaScript, and modern CSS.
- Integrated **10+ REST APIs** , handling data transformations, error states, and performance optimization.
- Collaborated in implementing **modular component structures** , reducing code duplication by approximately **20%** .
- Improved page performance by approximately **15%** through optimized rendering and efficient asset handling.
- Worked in Agile teams, contributing to sprint planning, code reviews, and timely delivery.

Education

Master of Computer Applications: Computer Science, 09/2023

Jain University - Bengaluru, India

Key Projects

Real-Time ECG Monitoring Dashboard

- Built a real-time ECG monitoring dashboard using Angular and WebSockets, handling continuous data streaming with buffering and packet-loss recovery.
- Optimized rendering for high-frequency updates to ensure smooth and accurate visualization for medical use.

Scalable Enterprise Angular Platform

- Designed role-based dynamic UI and access control system, supporting multiple user roles with scalable architecture and minimal code duplication.
- Architected a scalable Angular application with reusable components and shared services