

Shreyas B S

Full Stack Software Engineer

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 3+ years of experience building enterprise platforms and AI-powered applications using React.js, Next.js, Node.js, and TypeScript. Experienced in designing scalable frontend architectures, real-time systems, and role-based enterprise platforms used by 100K+ internal users in automotive R&D environments.

Led UI development across multiple enterprise modules including qualification management, test drive scheduling, costing approvals, and workflow automation for Mercedes-Benz R&D systems. Built modern applications including LLM-powered chatbot platforms, OCR-based document intelligence pipelines, video streaming systems, and real-time quiz engines.

Focused on performance optimization, modular architecture, and production-grade system design.

TECHNICAL SKILLS

- **Languages:** JavaScript (ES6+), TypeScript, SQL
- **Frontend:** React.js, Next.js, Redux Toolkit, Material UI, Tailwind CSS, HTML5, CSS3, Bootstrap
- **Backend:** Node.js, Express.js, REST APIs, Authentication, Role Based Access Control (RBAC)
- **Real-Time & Streaming:** WebSockets, FFmpeg, HLS Streaming, Video.js
- **AI & Data:** LLM APIs, Whisper.cpp, PaddleOCR, Prompt Engineering
- **Cloud & DevOps:** AWS, Docker, Vercel, Supabase
- **Tools:** Git, GitHub, Postman, Vite, Webpack

PROFESSIONAL EXPERIENCE

Senior Associate Software Engineer

Kyndryl Solutions Pvt Ltd (Client: Mercedes-Benz R&D India) (July 2024 - Present)

- Developing enterprise R&D workflow systems used by more than 100,000 internal users.
- Took over UI leadership responsibilities within three months due to aggressive delivery timelines.
- Built test drive scheduling dashboard enabling visualization of overlapping test plans across departments.
- Designed modular frontend architecture using Next.js and TypeScript improving maintainability.
- Reduced third-party dependencies by building reusable hooks and component libraries.
- Implemented scalable RBAC workflows supporting multi-level approval systems.
- Containerized UI applications using Docker for standardized deployment.

Software Engineer

Test Yantra Software Solutions Pvt Ltd (Aug 2022 - Jun 2024)

TestFreshers — Real-time Quiz Platform

- Built education assessment platform using React, TypeScript, Redux Toolkit and REST APIs.
- Implemented hierarchical learning structure: Subjects → Chapters → Topics → Subtopics → Questions.
- Developed multi-role system supporting Admin, Trainer, Quiz Creator, Question Approver and Student roles.
- Implemented WebSocket based real-time quiz execution and result evaluation.
- Integrated 78+ APIs for quiz management, certification and student progress tracking
- Migrated application from Create React App to Vite significantly improving build performance.
- Built reusable tree visualization component to represent complex hierarchical relationships.
- Became primary UI developer and code reviewer responsible for most frontend features.

Bench — Resource & Learning Management Platform

- Developed training management system with video streaming capabilities.
- Implemented FFmpeg pipeline for video segmentation and HLS streaming.
- Integrated Video.js player within React for adaptive video playback.
- Built attendance tracking and course content delivery features.

ProSpiders — Training Platform Website

- Developed corporate training website showcasing programs, achievements, courses and upcoming batches.
- Implemented inquiry forms and lead capture functionality.

Android Quiz Module

- Contributed to Android UI development using Kotlin and MVVM architecture.

KEY ACHIEVEMENTS

- Led UI development for enterprise R&D systems used by 100,000+ internal users at Mercedes-Benz.
- Improved UI performance by 30% through modular component refactoring and dependency optimization.
- Migrated large React application from Create React App to Vite reducing build time and improving developer productivity.
- Designed reusable tree visualization component widely used across multiple internal modules.
- Integrated 78+ REST APIs across enterprise applications.

FREELANCE & INDEPENDENT PROJECTS

ATW Holidays: Travel Booking Platform

Developed full-stack travel booking platform using Next.js and Supabase including booking inquiry management, SEO optimized pages, deployment and maintenance.

Sereno Barn: Retail Business Dashboard

Developed hotel showcase website with facility listing and enquiry management.

Mytrack: Personal Productivity System

Developed personal productivity platform supporting daily notes, reminders, habit tracking and expense monitoring using Next.js and Supabase.

Ahmed Steels: Retail Business Dashboard

Built product showcase and admin dashboard supporting product categories, sales tracking, customer enquiry management and pending payment tracking.

Pulse: Hospital Management System

Worked as UI developer for hospital management platform featuring operational dashboards and performance-based reward programs.

AI PROJECTS

AI Voice: Built AI-powered note system using Whisper.cpp and LLM APIs to convert speech to text and generate summarized notes.

AI Chatbot Builder: Developed multi-tenant chatbot platform allowing training through documents, JSON datasets and database connectors.

Doc-Parser: (AI Document Intelligence Parser) Developed OCR + LLM pipeline using PaddleOCR for extracting structured information from documents.

CERTIFICATION

- Artificial Intelligence Fundamentals - IBM SkillsBuild
- AWS Cloud Practitioner Essentials - AWS Training & Certification (2026)
- DevSecOps Grey Belt - Mercedes-Benz Global Cyber Security
- DevSecOps White Belt - Mercedes-Benz Global Cyber Security

EDUCATION

Bachelor of Engineering (Mechanical Engineering)

Visvesvaraya Technological University (VTU)

ATME College of Engineering Mysuru, Karnataka (2016 - 2019)