Debjyoti Mohapatra

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Senior Full Stack Engineer with 6+ years of experience architecting distributed systems and scalable web applications for product-based companies. Led Vue 2 to Vue 3 migrations across multiple organizations, improving application performance by 40% and developer velocity by 30%. Architected distributed multi-tenant systems serving 100K+ users across 5 telecom brands with 99.9% uptime. Deep expertise in Vue 3, React, TypeScript, and Node.js ecosystems with proven ability to design fault-tolerant distributed systems using AWS infrastructure. Engineered GraphQL and REST APIs handling 10M+ requests daily with sub-100ms latency. Automated observability pipelines across 15+ critical endpoints, reducing incident response time by 50%.

Technical Skills

Frontend Architecture: Vue 3, Vue 2, Nuxt 3, React, Next.js, TypeScript, Composition API, Micro frontends, Module Federation.
State Management: Pinia, Vuex, Redux, Zustand, Context API
Backend & APIs: Node.js, Express.js, NestJS, GraphQL, REST APIs, Serverless Architecture, Microservices
Cloud & Infrastructure: AWS (Lambda, DynamoDB, CloudWatch, S3, API Gateway), GCP, Docker, CI/CD Pipelines
Database Systems: PostgreSQL, MySQL, MongoDB, Firebase, Multitenant Data Models
Testing & Quality: Vitest, Jest, Playwright, E2E Testing, Unit Testing, Integration Testing
DevOps & Monitoring: CI/CD Automation, Observability, Performance Profiling, Error Tracking, CloudWatch
Authentication: JWT, OAuth2, Multi-tenant Authentication, Session Management
Architecture Patterns: Distributed Systems, Event-Driven Architecture, Multi-Tenant SaaS, Domain-Driven Design

PROFESSIONAL EXPERIENCE

📅 OCT 2024 - PRESENT
Software Development Engineer - 2 | Applore Technologies | Noida (Remote)

- Led end-to-end **architecture** of a **multi-tenant, multi-MVNE** telecom e-commerce platform, designing modular **micro-frontend systems (Vue/React)** and **REST APIs from scratch** with tenant-scoped authorization and versioned contracts.
- Owned **system scalability decisions** using stateless services, **DynamoDB indexing**, and event-driven **AWS Lambda** workflows, maintaining **99.9% uptime** under peak traffic conditions.
- Architected with a **headless, API-first integration** between Shopware and Strapi CMS, enabling dynamic multi-brand catalog management without frontend redeployments and reducing release cycles by **~40%**.
- Implemented **production-grade observability** (CloudWatch monitoring, structured logging, rate limiting) and led **Vue 2 → Vue 3 migration** using Composition API, modernizing the codebase and improving maintainability and developer velocity.

📅 DEC 2023 - SEPT 2024

Senior Software Engineer | Gate AI Pvt Ltd | Chennai (Remote)

- **Architected a production-grade GenAI Orchestration Platform** using **Vue 3 and Nuxt.js**, transitioning the product from MVP to a production-ready V1; implemented a provider-agnostic LLM gateway with robust multi-tenant data isolation and enterprise-level security.
- **Engineered a high-concurrency Node.js Control Plane** to manage the lifecycle of AI interactions; designed a unified API architecture that served as the backbone for both internal portals and external AI integrations, optimizing for sub-second latency in streaming responses.
- **Spearheaded the development of an enterprise Design System and Layout Builder engine**, establishing a Single Source of Truth for UI components; reduced feature time-to-market by **30%** through modular architecture and state-machine-driven UI logic.
- **Designed a centralized Identity & Access Management (IAM) framework** utilizing **JWT and OAuth2**, implementing fine-grained **RBAC** and multi-tenant isolation protocols to meet high-stakes security compliance for enterprise-tier clients.
- **Led a strategic architectural pivot from Vue 2 to Vue 3 (Composition API)**; defined the technical roadmap for flagship dashboards, resulting in a **40% performance gain** and significantly higher developer velocity through modern design patterns and automated testing.
- **Architected a Multi-tenant Operations Portal** to automate tenant provisioning, master data orchestration, and infrastructure performance monitoring; established foundational observability and management tools necessary for V1 production stability.

📅 SEPT 2021 – NOV 2023

Senior Software Engineer - 1 | Geekyants Pvt Ltd | Bengaluru (Remote)

- **Engineered a mission-critical transaction engine for a Robot-Advisory investment platform** using **Nuxt 3 and Firebase**; developed the core synchronization logic for real-time asset tracking and automated notifications, ensuring high-reliability for go-live production environments.
- **Architected a three-tier Advisory Console** with specialized modules for **Portfolio Advisory, Analytics, and Admin Updates**; implemented a robust **RBAC (Role-Based Access Control)** framework and **Feature Flag** system to manage granular capability toggling across distinct professional roles.
- **Architected a modular CMS and Serverless Backend** using **Node.js and Firebase Cloud Functions**; designed a **Pub/Sub messaging model** on **GCP** to handle asynchronous content updates and background data processing, ensuring system scalability and low-latency performance.
- **Strategized and led the organization's Vue 2 to Vue 3 migration roadmap**; architected the transition to **Composition API** and modern state management patterns, resulting in a **40% reduction in technical debt** and significantly improved codebase maintainability.
- **Designed and implemented multi-tenant data models within Firebase and GCP**; orchestrated complex cloud function triggers and real-time database listeners to maintain 100% data integrity across the advisory and investment ecosystems.
- **Established engineering excellence standards** by integrating **Vitest and Playwright** into the deployment pipeline; mentored junior developers on **TypeScript design patterns** and robust testing strategies, reducing production regressions and increasing team velocity.

📅 MAY 2021 - SEPT 2021

FRONTEND DEVELOPER | Ideanz IT solution (now KISAI) | Hyderabad (Remote)

As a dedicated Frontend Developer at KISAI, I contributed to pioneering advancements in no-code platform technology.

- **Architected a high-performance No-Code core using Vue 3 (Composition API) and XState**, engineering a dynamic **Schema Builder** that parsed complex **YAML/JSON metadata** into functional UI components with zero-latency state transitions.
- **Engineered an enterprise-grade Component Library and Marketplace** integrated with **Storybook**, establishing a Single Source of Truth that reduced development cycles by **40%** and ensured 100% UI consistency across the platform.
- **Developed a drag-and-drop Layout Builder** using **Tailwind CSS** and optimized DOM reconciliation; leveraged **XState** to manage complex visual states.

📅 SEPT 2021 – NOV 2023
Software Engineer - 1 | Kalsoft Solutions Pvt Ltd | Bengaluru

- Architected a **0-to-1 enterprise Sales CRM** for the Valve & Service industry using **Vue.js (Quasar) and NestJS,** engineering a schema-first Apollo GraphQL layer to synchronize complex industrial service records across global clients.
- Engineered a high-performance data-processing engine by integrating **Jspreadsheet, SheetJS, and Excel.js,** enabling seamless real-time manipulation and automated reporting (PDF/PPT/Excel) for massive industrial datasets.
- Developed a **Market Intelligence & Product Analytics platform utilizing E-chart**s and Plotly for data visualization, implementing Redis caching to ensure 99.9% uptime and sub-second latency for high-frequency market data transformations.
- Established core engineering standards and CI/CD protocols for a 4-person team, mentoring peers on modular UI architecture and **PostgreSQL** schema optimization to ensure long-term system maintainability and rapid feature iteration.

Education

2015- 2019
B.Tech in Computer Science | Silicon Institute of Technology | Bhubaneswar, Odisha, India

7.13 CGPA