

Sai Navaneeth V

Solution Architect | Senior Fullstack Engineer

Bengaluru, India | +91 9886002292 | sainavaneeth@gmail.com

navaneethvijay.in | [LinkedIn](#) | [GitHub](#)

Professional Summary

I am a Solution Architect and Senior Fullstack Engineer with over 8 years of experience designing, scaling, and building high-performance web applications, enterprise e-commerce systems, and AI-driven platforms. My expertise spans TypeScript architectures, cloud-native backends, and modern frontend ecosystems. I have a proven track record of architecting AI-native features, integrating production-grade Large Language Model pipelines, building knowledge graphs, and tuning systems to improve Core Web Vitals by up to 40%. As an Adobe Certified Expert, I focus on leading cross-functional teams, orchestrating microservices, and building high-throughput, intelligent software systems that solve real business challenges.

Core Technical Skills

- **AI & Intelligent Systems:** RAG Architecture, GenAI Orchestration (OpenAI, Anthropic SDKs), Vector Databases (Supabase Vector/Pgvector), Knowledge Graphs, Prompt Engineering & Context Layering, Vercel AI SDK
- **Languages & Core:** TypeScript, JavaScript (ES6+), HTML5, CSS3, PHP
- **Frontend Architecture:** React, Next.js, Vue.js, Redux, LegendState, Progressive Web Apps (PWA), ScandiPWA, TailwindCSS
- **Backend, Cloud & DB:** Node.js, Express.js, Hono.js, Laravel, SQLite, Redis, MySQL, MongoDB, AWS (EC2, S3, ALB), DynamoDB
- **DevTools & Automation:** Project IDX, Vercel Infrastructure, GitHub Actions (CI/CD), Docker, Nginx, Storybook
- **Testing & Quality:** Jest, React Testing Library, Visual Regression Testing, Test

Coverage Automation, Selenium

- **APIs & Integrations:** Headless CMS (Drupal, Drupal JSON:API), GraphQL, Apollo Client, RESTful APIs, Third-party CRM/ERP architectures

Professional Experience

Solution Architect / Technical Lead

Codilar Technologies Pvt. Ltd. | Bengaluru, India | 2018 – Present

- **Architecture & Strategy:** Lead the technical blueprints and fullstack engineering strategy for multi-million dollar enterprise apps, focusing on decoupled, highly resilient micro-frontends and microservices.
- **Performance Engineering:** Designed custom state management patterns and lazy-loading boundaries that cut initial page load times by 30%, noticeably increasing user conversion rates.
- **DevOps & Automation:** Built automated CI/CD pipelines using GitHub Actions, accelerating deployment velocity by 40% across engineering squads.
- **Technical Leadership:** Championed clean code standards, set up strict testing paradigms, and mentored over 10 junior and mid-level engineers into core contributors.

Key Enterprise Portfolio

- **Enterprise Drupal Knowledge Platform (AI-Powered Knowledge Management) | Technical Lead**
 - Architected a modular, enterprise-grade knowledge platform capable of integrating securely with multiple Drupal websites through REST/JSON:API connectors to transform raw content into a structured knowledge graph.
 - Developed recursive content crawling and metadata-driven dependency analysis across pages, components, and media assets to power an AI conversational interface via Retrieval-Augmented Generation (RAG).
 - Implemented extensible provider interfaces and local-first pluggable

persistence to support future expansion into Azure Wiki, SharePoint, Confluence, and multi-tenant cloud deployments.

- **Bayer's Pharmaceuticals (Germany) | Senior Frontend Developer to Frontend Team Lead**

- **Career Growth:** Started as Senior Frontend Developer to set core UI standards and was quickly promoted to Team Lead to own the front-end delivery and engineering timeline.
- **Headless & Microservices Architecture:** Engineered a decoupled, distributed microservices setup that hooked a headless Drupal CMS backend up seamlessly with a high-scale Next.js app.
- **Vercel & Infrastructure:** Architected a high-traffic production environment on Vercel, implementing complex authentication flows, secure routing paradigms, and edge-side optimizations.
- **Quality Automation:** Scaled overall test coverage by building rigid testing ecosystems including Jest setups, Storybook component libraries, and automated coverage thresholds directly in GitHub Workflows.
- **Visual Regression Tooling:** Designed and built a custom visual regression testing system from scratch to safeguard cross-browser consistency and prevent UI bugs during fast production rollouts.

- **Tiger-One Distribution | Technical Lead**

- **Global Systems:** Architected an enterprise multi-website, multi-tenant B2B/B2C platform scaling smoothly across multiple regional locales, powered by Adobe Commerce (Magento) as a headless backend engine.
- **PWA Delivery:** Orchestrated high-performance PWA storefront networks using ScandiPWA and modern React, achieving near-instant page transitions and sub-second mobile load speeds.

- **Danube Homes | Technical Lead**

- **Inventory & Ledger Systems:** Engineered a bespoke, real-time inventory ledger and complex order management system that synchronized third-party enterprise CRM/ERP data across multiple fulfillment centers.

- **Geospatial Checkout:** Integrated an interactive checkout experience using the Google Maps API for spatial address selection, which dropped last-mile delivery failures by 30% and boosted successful checkouts by 40%.
- **Aldo Singapore | Senior Frontend Developer**
 - **MACH & Distributed Architecture:** Worked on a modern, composable MACH system running a distributed Order Management System built on top of core AWS infrastructure.
 - **Performance Optimization:** Wrote highly efficient scripts using automated caching patterns, edge execution budgets, and lazy-loaded third-party pipelines to recover 20% of lost initial load speeds.
- **Samyakk | Senior Frontend Developer**
 - **Headless Transformation:** Led the platform's transition to a decoupled Vue Storefront framework integrated into a headless commerce backend.
 - **Intelligent Systems:** Implemented complex, asynchronous filtering tools and recommendation indexes tailored to handle heavy media assets without lagging, resulting in an app-like mobile experience.

Technical Engineering Projects

- **Flowmail (AI-Augmented Email & Task Orchestrator):**
 - Architected and built a productivity-focused, fullstack email management application using Next.js, Supabase, and advanced client-side state management primitives.
 - Integrated an LLM-driven categorization pipeline that scans incoming email payloads, auto-extracts high-priority action items, and drafts contextual responses to save hours on daily administrative tasks.
- **Intelligent Personal Knowledge Base & RAG Agent:**
 - Designed and deployed a local utility application that takes unstructured personal notes, receipts, and technical documents and turns them into vector embeddings via Supabase Vector.
 - Leveraged the Vercel AI SDK and OpenAI streaming API to build a fast,

semantic search interface that solves daily data-retrieval frustration allowing instant queries over historical home records, property data, or financial context.

- **Mobile Rent Management Engine:**

- Designed the ledger-based data structures and dual-role user journeys for a mobile rent tracking application built on Expo and React Native, managed entirely within a Project IDX cloud workspace.

- **BackstopJS-UI:**

- Developed and open-sourced an automated visual regression testing UI wrapper deployed via Vercel, drastically reducing manual QA cycles for complex user interfaces.

Certifications & Awards

- Adobe Certified Expert: Digital Experience Front-End Developer
- World Traveler Award (Meet Magento NY): Honored for outstanding global architecture execution
- B2B Champ Award (Meet Magento India): Awarded for best-in-class scalable B2B enterprise infrastructure
- Adobe Experience Maker Award: Recognized for building high-performance, multi-currency localization engines

Education

Bachelor of Engineering (B.E.) in Information Science and Technology

BNM Institute of Technology, Bengaluru - 2018