

Venkata Sagar Varma Muppala

Fullstack Software Architect

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EXPERIENCE

Software Architect III

Sira Soft Solutions Inc 07/2024 Saint Louis, MO, USA

A company focused on delivering high-performance web and mobile applications

- Led a team of 4 UI engineers in delivering high-performance web and mobile applications, driving sprint planning, code reviews, and feature delivery with precision and velocity
- Architected scalable full-stack solutions using React.js, Next.js, Zustand, and Spring Boot, enabling seamless user experiences across platforms and devices
- Currently building an internal AI-powered tool that integrates Amazon Q with Figma MCP server, automatically converting Figma designs into React.js and Jetpack Compose code while preserving core UI styling and layout fidelity
- Built Micro Frontend architecture with Webpack 5 Module Federation, allowing dynamic dependency sharing and modular deployment across enterprise-grade apps
- Developed a reusable Survey Form library with plug-and-play capabilities, reducing UI implementation time by 90% within one month and standardizing form logic across projects
- Converted complex web apps into mobile-native experiences using React Native, Expo, and Capacitor JS, ensuring full Android/iOS compatibility and offline resilience
- Integrated real-time technician tracking using Maplibre, AWS Here Maps, and Datadog, delivering live location monitoring and proactive alerting for field operations
- Accelerated development cycles with AI tools like GitHub Copilot, Supabase AI, Figma Make, Worklk, and Replit, streamlining code generation, UI prototyping, and backend scaffolding
- Implemented BDD test automation using Cucumber, Selenium, and QAF, achieving robust coverage and reducing manual QA effort across web and mobile platforms
- Mentored junior developers on frontend architecture, performance tuning, and design best practices, fostering a culture of clean code and scalable UI patterns

Technical Lead

Wells Fargo International Solutions Private Ltd 04/2021 - 05/2024

Hyderabad, India

A global financial services company providing diverse financial solutions

- Led a cross-functional team of 4 engineers to deliver a secure, scalable financial advisory platform, balancing frontend innovation with backend robustness across microservices
- Architected a Micro Frontend ecosystem using Webpack 5 Module Federation, enabling independent deployment of advisory modules and seamless integration across banking portals
- Engineered dynamic, responsive UIs in React.js, leveraging Zustand for lightweight state management and optimizing performance with custom Webpack configurations
- Standardized component libraries and design tokens, ensuring consistent branding and accessibility across federated React apps
- Integrated Cucumber BDD with Selenium and Qmetry, automating end-to-end test scenarios for advisory workflows and improving QA coverage by 75%
- Designed and implemented Spring Boot microservices, exposing secure REST APIs for financial data aggregation, client profiling, and advisory recommendations
- Championed Agile rituals and sprint planning, aligning technical deliverables with business goals and fostering a culture of ownership and velocity
- Mentored junior developers in React, Java, and automation frameworks, conducting code reviews, pairing sessions, and architecture walkthroughs to elevate team capability
- Collaborated with product managers and stakeholders, translating financial advisory requirements into scalable tech solutions and delivering PoCs for client validation
- Optimized CI/CD pipelines for micro frontends and backend services, reducing deployment friction and enabling faster iteration cycles across advisory modules

Senior Software Engineer

Amadeus Labs 08/2019 - 03/2021 Bengaluru, India

A company focused on providing travel technology solutions

- Built airline reservation system components using Java 8 and Spring Boot
- Developed ARIA template (In-house)-based interfaces with role-based navigation
- Migrated legacy systems to AWS, integrating Redis for caching
- Resolved vulnerabilities using Fortify and Splunk-based logging

SUMMARY

Seasoned Full Stack Developer with 11+ years of experience in building scalable applications across domains like finance, travel, and retail. Expertise in React.js, NextJs, React Native, NestJS, NodeJs, Angular and Java combined with a strong grasp of microservices, DevOps tools, and modern UI frameworks. Passionate about integrating AI tools into daily development workflows for improved productivity and faster delivery.

STRENGTHS

★ AI Integration in Development

Proficient in integrating AI tools into development workflows for improved efficiency and productivity

KEY ACHIEVEMENTS

FLAG Framework-Agnostic AI Design→Code Solution

Enterprise AI platform (Amazon Q) that converts Figma into production-ready UI code across React, Angular, Vanilla JS, Jetpack Compose, SwiftUI, and Flutter, delivering **~85% faster** development and **~99% visual fidelity**.

Framework-agnostic rule sets and Q agents are packaged per framework (downloadable folders) so teams load the desired stack and generate code instantly.

Dynamic component discovery via repo APIs auto-maps 100+ design-system components; a 4-phase workflow (Analysis → Generation → Validation → Comparison) plus a 7-point QA ensures production-ready, accessible, stateful components.

SKILLS

Frontend

ReactJs, NextJs, Zustand, Tailwind, React Native, Expo, Bootstrap, Angular, Redux, D3.js

Backend

Java, Spring Boot, Microservices, REST APIs, JPA, Redis, NestJs

DevOps & Tools

Gitlab, Jenkins, Maven, Docker

Database

Oracle, MongoDB, SQL Server

Testing

JUnit, Mockito, Jest, Cucumber BDD automation, Selenium, Qmetry Automation Framework, Karma & Jasmine

AI tools familiar with

AmazonQ, Copilot in VsCode, Gemini in IntelliJ, Cursor AI, Worklk, Figma Make, Replit, v0. dev, Uizard.

EXPERIENCE

Senior Software Engineer

Analytics Quotient 05/2018 - 08/2019 Bengaluru, India

A company specializing in data analytics and visualization solutions

- Designed KPI dashboards using Angular, D3, and Google Charts
- Created utilities to export visual data to Excel/PowerPoint using Apache POI
- Employed Swagger and Postman for API testing and documentation

Senior Systems Engineer

Infosys Ltd 02/2014 - 05/2018 Bengaluru, India

A multinational corporation that provides IT services and consulting

- Allstate Independent Agents application – a web application built for insurance agents to assist the customers for creating/modifying the insurance policies
- Analyzing the requirements of the application with business people
- Participating in the design and technical discussions along with the team
- Creating the Rest APIs in the backend for communication between UI and backend for data exchange
- Implementing the code, writing unit test cases for code coverage

EDUCATION

Bachelors of Technology in Electronics & Communications

Narayana Engineering College

01/2012 - 01/2013 Nellore, India

PROJECTS

School Management App

08/2025 - 09/2025

Mobile School Management App built using React Native, Expo, and Supabase

- Built a multi-role mobile app for Students, Teachers, Parents, and School Admins with role-based dashboards, real-time notifications, and secure access
- Key features: attendance with calendar views, assignments and grading, schedules with conflict detection, teacher-parent chat, newsletters/announcements, fee tracking, and admin analytics
- Architecture: React Native (TypeScript, Expo), Gluestack UI + NativeWind; Supabase (PostgreSQL, Auth, RLS, real-time); Zustand + SecureStore; React Hook Form + Yup; EAS builds
- Backend: NestJS API with project-per-tenant isolation, host-based Supabase client resolution, cached Settings API (branding/colors/logo), and server-moderated access to settings/data
- Security & performance: RLS-driven data protection, bearer auth, in-memory caching, API-first settings, and removal of legacy membership logic for simpler, safer multi-tenancy
- UX & delivery: Figma-driven UI, dark/light theming, polished transitions, deep links for auth, and environment-ready setup (Dev/QA/Prod)
- AI-assisted dev: Leveraged GitHub Copilot for rapid feature scaffolding, refactors, test stubs, and SQL migration drafting to accelerate delivery while maintaining code quality

Nutrition Tracking App

08/2025 - 09/2025

AI assisted cross-platform nutrition app

- Built a React Native (Expo, TypeScript) app to search foods and view detailed nutrition, prototyped in Figma and accelerated with GitHub Copilot
- Key features: email auth + Google/Apple SSO, searchable results with detail modal, light/dark themes with toggle, bottom tabs (Home, Voice Search, Photo Upload, Profile), persistent header (branding, logout, theme toggle), inline loading states, and profile screen
- Tech: React Native, Expo, TypeScript, React Navigation, NativeWind (Tailwind), Gluestack UI, Expo Vector Icons, Context API (Auth/Theme)
- Highlights: component-driven UI for rapid iteration, accessible theming and responsive layouts, clean state management, scalable navigation, Android/iOS ready (EAS builds)