

VASANTHARAJA R

Software Development Engineer | Full-Stack Engineer

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PROFESSIONAL SUMMARY

Software Development Engineer with 3+ years of experience building production web applications across frontend and backend systems. Strong experience with React, TypeScript, JavaScript, Node.js, Go, Python, REST APIs, PostgreSQL, Redis, and modern software engineering practices. Experienced in owning features end-to-end, designing user-facing products, building backend systems, implementing authentication and authorization, and solving complex data and reliability problems. Familiar with modern AI engineering concepts including LLM applications, agents, RAG, Graph RAG, context engineering, tool use, and model adaptation techniques.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Go, Python, SQL

Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, shadcn/ui, Material UI, Mantine UI, Redux, React Query

Backend: Node.js, Express.js, Go, REST APIs, PostgreSQL, Redis, JWT, OAuth

AI & LLM Concepts: LLM Applications, AI Agents, RAG, Graph RAG, Context Engineering, Tool Use, MCP, LoRA, Agent/Harness Workflows

Testing & Quality: Vitest, Jest, Test Automation, E2E Testing, Code Coverage, SonarCloud

Tools: Git, GitHub, GitHub Actions, Postman, Linux, Vite

PROFESSIONAL EXPERIENCE

Software Development Engineer — NenuAI

Mar 2026 – Present

Chennai, India

- Built a multi-tenant partner portal from the ground up, designing and implementing frontend and backend functionality for authentication, role-based access control, workspace management, invitations, account management, branding, entitlements, and client configuration; took the product from an initial application foundation to a deployed partner administration platform.
- Designed and implemented secure partner data access through OAuth and MCP, defining scoped permissions, consent-based access, authorization checks, revocation behavior, and disclosure logging so partners could access user-authorized data while respecting account and privacy controls.
- Engineered persistent conversation history across the frontend and backend, designing conversation and message persistence, content-block storage for text and tool calls, idempotent message handling, asynchronous title generation, and resilient Redis/PostgreSQL data flows to provide reliable multi-turn conversation continuity.
- Improved travel and dining data reliability by driving data-quality issues to their root causes, identifying missing source, destination, date, provider, and location data, implementing fixes across the data pipeline, and converting the resulting requirements into automated CI quality gates to prevent regressions.
- Strengthened application security across partner and data-access workflows, identifying and addressing authorization and isolation issues including disabled-account access, cross-workspace email isolation, invite security, SSRF protection for remote brand fetching, and authorization checks around MCP data access.
- Migrated the UI component system toward shadcn/ui and Tailwind CSS, building reusable components and establishing consistent design patterns across the application.
- Worked across frontend, backend, testing, and developer tooling to take features from investigation and technical design through implementation, testing, and deployment.

Software Development Engineer 1 — SpringWorks

Jul 2023 – Nov 2025

Remote

EngageWith — Recognition & Rewards Platform

- Architected a real-time notification system using higher-order component and compound-component patterns, creating an extensible frontend architecture for multiple event types.
- Built an AI-powered survey generator using the MERN stack, enabling users to create surveys through natural-language input and expanding the product's full-stack capabilities.
- Automated the migration of a 50,000+ line codebase from Webpack to Vite using custom Python scripts for module conversions, image imports, and alias updates; reduced build time by 96%, from approximately 5 minutes to 20 seconds.
- Reduced SonarCloud technical debt from approximately 2,000 issues to 34, significantly improving code quality and maintainability.
- Upgraded React Query and modernized legacy React components to improve maintainability and application performance.

SpringVerify — Background Verification Platform

- Built a manual purchase workflow that enabled operations teams to process transactions and generate invoices without direct database access.
- Developed backend APIs for configurable verification checks and package add-ons, supporting administrative workflows across the platform.
- Designed granular permission controls across administrative and client-facing interfaces.
- Built automated background processing for verification workflows and email campaign management.
- Served as Frontend Sprint Lead for three sprint cycles, coordinating development capacity and deployments across multiple repositories.

EDUCATION

Bachelor of Engineering in Computer Science

Graduated May 2024

VSB Engineering College, Karur — CGPA: 8.82 / 10