

VASANTHARAJA R

Software Development Engineer

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PROFESSIONAL SUMMARY

Software Development Engineer with 2+ years of experience building scalable fullstack web applications across 3 production products serving 5,500+ enterprise clients. Expertise in React, TypeScript, Node.js, and MySQL with proven impact through performance optimization (96% build time reduction) and code quality improvement (98% tech debt reduction). Experienced in sprint leadership and agile development.

WORK EXPERIENCE

Software Development Engineer 1 | SpringWorks

July 2023 - November 2025 (2 years 4 months) / Remote

EngageWith - Recognition & Rewards Platform

- Architected real-time notifications system using HOC and compound component patterns, enabling extensible event-type architecture
- Built AI-powered survey generator (MERN fullstack) allowing natural language input, marking first fullstack contribution
- Automated migration of 50,000+ line codebase from Webpack to Vite using 3 custom Python scripts for require() conversions, image imports, and alias updates, completing in 1 day, reducing build time by 96% (5min → 20sec), and deploying bug-free to production
- Reduced SonarCloud technical debt from 2,000 issues to 34 (98% improvement), significantly enhancing code quality
- Upgraded React Query from v4 to latest version and refactored legacy components

SpringVerify - Background Verification Platform (5,500+ clients)

- Implemented manual purchase flow enabling operations team to handle transactions and invoice generation without database access
- Built Currency CRUD API using Sequelize ORM and MySQL, now used application-wide for multi-currency support
- Created Custom Check Manager with full CRUD operations for configurable verification checks and package add-ons
- Designed granular permission system with add/view/edit controls across super admin and client portals
- Integrated BullMQ workers and cron jobs to automatically stop email campaigns based on check status
- Served as Frontend Sprint Lead for 3 cycles, managing deployments across 4 repositories and coordinating team capacity

Tech Stack: React, TypeScript, Node.js, Express, MySQL, Sequelize, Redux, React Query, Material-UI, Mantine UI, BullMQ, Redis, Azure DevOps, Python, Webpack, Vite

TECHNICAL SKILLS

Frontend: React.js, Next.js, TypeScript, JavaScript (ES6+), HTML5, CSS3, Material-UI, Mantine UI, Shadcn UI, Tailwind CSS, Redux, React Query, RTK Query

Backend: Node.js, Express.js, RESTful APIs, MySQL, Sequelize ORM, Python (automation/scripting), Supabase, Authentication (JWT)

Tools: Git, GitHub, Azure DevOps, BullMQ, Redis, Jest, Storybook, Postman, Vite, Linux

Currently Learning: AWS (EC2, S3), Docker, PostgreSQL, System Design

PROJECTS

Huston - Project Management System

Next.js, TypeScript, Shadcn UI, Tailwind CSS

- Built ADO-like project management system with task tracking and collaboration features
- Implemented type-safe components using TypeScript and modern UI design system

EDUCATION

Bachelor of Engineering in Computer Science | VSB Engineering College, Karur | CGPA: 8.82 | Graduated: May 2024