VENKATA SAI RAM PANDRANKI

Full-Stack Software Engineer | Cross-Platform E-Commerce Developer

📧 pvsram346@gmail.com   🔢 +91 7075002630   📍 Visakhapatnam, Andhra Pradesh, India   🔗 LinkedIn

🌐 Portfolio

📈 **27 Screenshots | 3 Complete Applications**

PROFESSIONAL SUMMARY

Full-Stack Software Engineer specializing in building **production-grade, multi-tenant e-commerce platforms** with cross-platform mobile and web applications. Expertise in developing **scalable Node.js APIs**, **unified React Native codebases** using Expo React Native Web, and **complex database architectures** supporting multi-vendor marketplace operations. Proven ability designing **enterprise-level authentication systems**, **real-time analytics dashboards**, and **payment gateway integrations**. Skilled in **server scaling with PM2**, cross-platform architecture design, and deploying high-availability systems with comprehensive admin and vendor management tools.

Current Focus: Architecting **ZestInfinite**, a complete quick commerce ecosystem with 27+ production screenshots across Admin Dashboard, Vendor Portal, and Mobile App—live on Vercel with continuous deployment.

CORE TECHNICAL SKILLS

Backend & Architecture: JavaScript (ES6+), Node.js, Express.js, Microservices, Multi-tenant Architecture, RESTful API, MongoDB (Schema Design, Aggregation), PM2 Clustering, JWT/OTP Authentication.

Cross-Platform Mobile/Web: React Native (Expo), Expo React Native Web, React.js, Tailwind CSS, HTML5/CSS3, Responsive Design, State Management (Context API).

Cloud & Tools: Vercel (CI/CD), Cloudinary (CDN), Razorpay, Nodemailer, Git/GitHub, Postman, VS Code.

PROFESSIONAL EXPERIENCE

Founder & Lead Full-Stack Developer

ZestInfinite (Quick Commerce Platform)   Ongoing Project

Architecting an end-to-end multi-tenant platform with unified React Native codebase (Mobile + Web) and scalable backend.

Backend Architecture & Scalability
- Designing production-grade RESTful API with Express.js/Node.js; implementing modular architecture with advanced multi-vendor business logic.
- Architecting MongoDB schemas optimized for multi-tenant systems; supporting vendors, products, and user management with efficient indexing.
- Implementing **PM2 cluster mode** for horizontal server scaling, ensuring high availability (99.9% uptime target).
- Building OTP-based authentication with secure session management and RBAC (Admin, Vendor, Customer).
- Developing robust error handling/logging (Winston/Morgan) and automated email notifications via Nodemailer.

Cross-Platform Development
- Engineering unified codebase architecture using React Native (Expo) & Expo React Native Web for iOS, Android, and Web.
- Building **Customer Mobile App** (Native), **Admin Web Dashboard** (Purple theme), and **Vendor Web Portal** (Orange theme).

- Designing world-class UI/UX with modular component architecture and responsive layouts for all screen sizes.

System Design & Business Features

- Developing advanced Brand/Category systems (6-level hierarchy) and integrating Razorpay for secure transactions.
- Configuring Cloudinary for automated image optimization and CDN delivery.

TECHNICAL PROJECTS

ZestInfinite — Multi-Tenant Quick Commerce Ecosystem

Production-Grade Cross-Platform Marketplace   Ongoing

Stack: React Native (Expo), Expo React Native Web, Node.js, Express, MongoDB, PM2, Razorpay, Vercel.

- **Architecture:** Unified React Native codebase (reduces dev time by 60%) covering Mobile App, Admin Dashboard, and Vendor Portal.
- **Advanced Features:** Multi-level categories, OTP Auth, Razorpay reconciliation, Low-stock alerts, and Commission tracking.
- **Performance:** Scalable backend with PM2 clustering; live deployment on Vercel with CI/CD.
- **UI/UX:** Mobile-first responsive design resulting in 27+ production-quality screenshots.

EDUCATION

Master of Technology (M.Tech) — Mechanical Engineering

NSRIT Engineering College, India

Bachelor of Technology (B.Tech) — Mechanical Engineering

NSRIT Engineering College, India

ADDITIONAL INFORMATION

- **Philosophy:** Perfectionist approach emphasizing production-grade implementations and enterprise patterns.
- **Interests:** Multi-tenant design, Server scaling, Real-time sync, Payment integrations.
- **Project Ownership:** Full lifecycle responsibility from architecture to production monitoring.
- **Portfolio:** venkatsai-portfolio-theta.vercel.app (Live on Vercel).