

Thirupathi Rao Uppu

Software Engineer

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Professional Summary

Innovative Full Stack Software Engineer with 3+ years of experience building scalable web and mobile applications using React, React Native (CLI), Node.js, and NestJS. Strong in designing secure, production-ready systems, REST APIs, and POS integrations with hardware connectivity and cloud deployments. Passionate about system design, clean architecture, and creating high-performance applications. Actively exploring Generative AI, AI-driven development, and Robotics to build intelligent, future-ready solutions.

WORK EXPERIENCE

Suthra Technologies — *Software Engineer*

October 2023 – Present

- Built a multi-domain SaaS POS platform using MERN stack, enabling smooth operations for restaurant and retail clients.
- Integrated Stripe Terminal, thermal printers, label printers, and cash drawers, achieving reliable hardware-software synchronization.
- Improved build and runtime performance by 30% using Vite.js and TypeScript.
- Collaborated with USA-based teams on payment integration and global POS deployments.
- Followed Agile/Scrum practices and conducted code reviews to ensure scalable, maintainable systems.

Bluestate Media Pvt. Ltd. — *Frontend Developer Intern*

February 2023 – May 2023

- Designed and optimized responsive UIs using HTML5, CSS3, JavaScript, and Bootstrap.
- Customized WordPress (PHP/CSS) themes, improving performance and responsiveness.
- Supported live deployments and resolved client-side issues through debugging and testing.

PROJECTS

ASKRide (Mobile APP) (Dec 2025 – present)

- Developed a cross-platform carpooling app (iOS/Android) using React Native CLI, integrating OTP/SMS login, Google Maps/Places, and FCM notifications.
- Worked on NestJS backend APIs while managing complete frontend API integration, validations, and feature implementation.

Multi-Domain SaaS POS System (Nov 2024 – Nov 2025)

- Developed a multi-tenant POS platform integrating Stripe, PayPal, and cash payments.
- Implemented hardware integrations (thermal printers, barcode scanners, label printers).
- Enhanced builds by 40% with Vite + React + TypeScript and secured access with JWT and RBAC.

Non-Financial Banking Platform (Mar 2024 – Nov 2024)

- Created a cash and branch management system using MERN stack.
- Improved efficiency by 25–35% via optimized MongoDB queries and dynamic PDF tools.

Kamma App (Mobile Application) (Oct 2023 – Mar 2024)

- Developed and deployed a community app using Node.js, MongoDB, AWS, enabling rural job and land management.
- Successfully launched on Google Play Store.

Independent Development Work

Raksha (Parent Control Mobile App))

- Developed a cross-platform parental control application (iOS & Android) using React Native CLI, implementing screen time management, live location tracking, location history, safe zone alerts, and real-time screen sharing.
- Built and integrated secure NestJS backend APIs, handling authentication, real-time tracking logic, push notifications, and complete frontend-backend integration with proper validations and scalable architecture.

UI/UX Design – ZooEat (Food Delivery App)

- Collaborated with the client to gather requirements and design end-to-end UI/UX flows for a food delivery mobile app using Figma.
- Created responsive, user-friendly screens including onboarding, restaurant listing, cart, checkout, and order tracking.
- Iterated on wireframes and prototypes based on client feedback, ensuring intuitive navigation and strong user experience.

Co-Founder – Krupa Tech Service

- Co-founded a local tech service startup providing mobile and laptop repair solutions, managing operations, customer service, and technical diagnostics.
- Led the development of the company website during college, designing and implementing the frontend and backend to showcase services, enable inquiries, and improve customer reach.
- Handled service workflow coordination, issue troubleshooting, and client communication, ensuring timely delivery and customer satisfaction.
- Gained hands-on experience in business operations, pricing strategy, vendor coordination, and real-world problem solving.
- Strengthened leadership, decision-making, and team collaboration skills while balancing academics and entrepreneurship.

Instant Waiter

- Exploring the development of an AI-powered robotic waiter system using ESP32 to automate restaurant service operations.
 - Passionate about integrating IoT, robotics, and intelligent automation to improve customer experience and operational efficiency.
 - Actively learning embedded systems, AI integration, and real-time communication to build scalable smart service solutions.
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Certifications

AWS Certified Cloud Practitioner (CLF-C02) – In Progress (2026)

- AWS fundamentals (EC2, ELB, ASG, RDS, S3, ElasticCache) and real-world cloud deployments to strengthen production-level cloud proficiency.

Certified Scrum Master (CSM) – In Progress (2026)

- Agile principles, Scrum framework, sprint planning, and team collaboration techniques to enhance project delivery efficiency and cross-functional coordination in software development environments.
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Education

- **Master of Computer Application**—Vignan's Foundation For Science ,Technology & Research University, Guntur ,AP
2023 – 2025 | Percentage: 74%