Manitharun Reddy Thallapureddy

Full-Stack Software Engineer

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LinkedIn | GitHub | Portfolio

Professional Summary

Full-Stack Software Engineer with 4 years of professional experience developing and maintaining enterprise web applications, retail management platforms, and offline-first POS systems. Proficient in JavaScript, TypeScript, React.js, Node.js, Express.js, PostgreSQL, MySQL, MongoDB, and SQLite. Experienced in building RESTful APIs, real-time data synchronization, multi-tenant applications, inventory management workflows, and Electron-based desktop applications. Hands-on experience contributing across frontend and backend development, application integration, and production deployment.

Technical Skills

- **Programming Languages:** JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3
- **Frontend Development:** React.js, React Hooks, Context API, Tailwind CSS, Bootstrap, Handlebars.js
- **Backend Development:** Node.js, Express.js, RESTful APIs, WebSockets
- **Databases:** PostgreSQL, MySQL, MongoDB, SQLite
- **Desktop Applications:** Electron.js, Local API Development, Printer Integration, Silent Printing
- **Architecture and Concepts:** Offline-First Architecture, Database-per-Tenant Multi-Tenancy, Real-Time Synchronization, RBAC, Transaction Management, Printer Queues
- **Development Tools:** Git, GitHub, Postman, Docker, Linux, Nginx, PM2

Professional Experience

Young Minds Technology Solutions Pvt. Ltd. Hyderabad, India

Full-Stack Web Developer *27 October 2022 – 2 November 2026*

- Developed and maintained full-stack web applications for retail management, restaurant operations, POS billing, and enterprise inventory management using React.js, Node.js, Express.js, TypeScript, and SQL databases.
- **Offline POS Development:** Contributed to the development of an offline-first retail POS ecosystem using Electron.js, Express.js, and SQLite, supporting 6 retail outlets and processing 700+ daily transactions per store while maintaining local billing functionality during internet outages.
- **Data Synchronization:** Implemented bidirectional WebSocket-based synchronization between local POS applications and cloud services, supporting transaction synchronization between offline outlets and centralized systems.
- Implemented unique transaction identifiers and duplicate record checks to maintain transaction integrity during local-to-cloud and cloud-to-local synchronization.
- **Multi-Tenant Architecture:** Contributed to the development of RetailSoft, a B2B retail management platform serving 10+ business tenants using a database-per-tenant architecture to maintain separate databases for individual business clients.
- **Inventory Management:** Developed frontend and backend modules for inter-store inventory transfers, stock indents, and multi-stage approval workflows, supporting 20+ daily stock indents and transaction-based inventory operations.
- **Government Procurement System:** Contributed to the development of the Telangana State Forensic Science Laboratory (TGFSL) procurement and inventory management system, supporting digital indent tracking and stock operations across all 30 Telangana district head offices.
- Implemented role-based access control and multi-level approval workflows for inward and outward stock movements, including Receipt Voucher (RV) and Issue Voucher (IV) generation.
- **Silent Printing Application:** Developed Stealthy Print, an Electron-based desktop application with an embedded Express.js server, enabling browser applications to submit HTML content and printer names through HTTP POST requests.
- Implemented printer-specific print queues and automatic retry mechanisms for failed print jobs, supporting multiple connected thermal printers and silent printing without manual operating system print dialogs.
- **Restaurant Management:** Developed restaurant billing and order management modules supporting Dine-In, Takeaway, and Kitchen Order Ticket (KOT) workflows using React.js, Node.js, Express.js, and MySQL.
- Integrated Swiggy and Zomato order processing through UrbanPiper webhooks, enabling automated order ingestion, kitchen ticket generation, and real-time order notifications.
- Developed frontend components for retail checkout, including GST calculations, barcode scanner integration, inventory alerts, and billing workflows.
- Collaborated with developers and team members across frontend and backend development, participated in Agile development activities, performed REST API testing using Postman, and supported application deployment and production bug fixes.

Key Project Experience

PastryChef POS – Offline Retail Point of Sale

Electron.js, React.js, Node.js, Express.js, SQLite, PostgreSQL, WebSockets

- Offline-first POS application designed to maintain billing operations across 6 retail outlets during internet connectivity interruptions.
- Local transaction storage and bidirectional synchronization between outlet systems and cloud infrastructure.
- Supports 700+ daily transactions per store with unique transaction identification and duplicate checks.

RetailSoft – Multi-Tenant Retail Management System
React.js, Node.js, Express.js, TypeScript, MySQL

- B2B retail management platform supporting 10+ business tenants through a database-per-tenant architecture.
- Developed retail management, billing, inventory, and inter-store stock transfer functionalities.

TGFSL – Telangana State Forensic Science Laboratory
React.js, Node.js, Express.js, MySQL

- Enterprise procurement and inventory management application supporting operations across all 30 Telangana district head offices.
- Implemented digital indent tracking, stock movement workflows, approval processes, and RV/IV generation.

Stealthy Print – Desktop Printing Application
Electron.js, Node.js, Express.js, HTTP APIs

- Developed a desktop printing service with an embedded Express server to receive HTML print content and printer details through HTTP requests.
- Implemented printer-specific queues and automatic retry handling for failed thermal printing jobs.

RestoSoft – Restaurant Management System
React.js, Node.js, Express.js, MySQL

- Developed restaurant billing, Dine-In, Takeaway, and Kitchen Order Ticket management workflows.
- Integrated online food ordering workflows and automated kitchen order processing.

Education

Guru Nanak Technical Campus Hyderabad, Telangana, India
Bachelor of Technology in Electronics and Communication Engineering *2018 – 2022*