

YASSER REYADH

ENGINEERING TEAM LEAD | FULL-STACK ENGINEER | ERP & AI ARCHITECT

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[Portfolio](#) | [LinkedIn](#) | [GitHub](#)

SUMMARY

Engineering team lead and full-stack engineer building enterprise systems, AI-driven products, and automated workflows. Deep expertise in the Frappe/ERPNext ecosystem, modern web development (React/Next.js), and DevOps across both Windows and Linux. Recognized for innovation with a 3rd place Hackathon win for assistive AI technology. Delivers secure, high-performance systems for healthcare, retail, and corporate clients, with a strong focus on integration, offline-first reliability, and automation.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript (ES6+), Rust, Dart, Kotlin, SQL, HTML5, CSS3

AI & Automation: Large Language Model (LLM) Integration, Multi-Agent Systems, RAG, LangGraph, Agent Orchestration, n8n, Python Automation

Frontend & Mobile: React.js, Next.js, Vue.js, React Native (Expo), Flutter, Tailwind CSS

Backend & ERP: Node.js, Express.js, Frappe Framework, Enterprise Resource Planning (ERPNext), FastAPI, Prisma

Desktop: Tauri (Rust), Electron, offline-first synchronization

DevOps & Cloud: Docker, VPS Management, Linux Security, CI/CD Pipelines, Nginx, AWS, DigitalOcean, Netlify, Vercel

Databases: PostgreSQL, Supabase, MariaDB, Redis, MySQL

EXPERIENCE

Engineering Team Lead | E2NEXT

Jul 2026 – Present

Baghdad, Iraq

- Lead all development staff, owning delivery standards, code review, and technical direction.
- Set architecture across the ERP, healthcare, and POS product lines the team ships.
- Continue hands-on delivery alongside the team, most recently on PACS imaging and offline POS synchronization.

Full-Stack Developer & DevOps Lead | E2NEXT

Feb 2024 – Jul 2026

Baghdad, Iraq

- Architected and deployed 10+ enterprise-grade applications using Frappe/ERPNext and the MERN stack for healthcare and retail clients, improving overall operational efficiency by 35%.
- Maintained 99.9% uptime by managing end-to-end VPS infrastructure (AWS, DigitalOcean) including rigorous security protocols, firewall rules, automated backups, and CI/CD deployment pipelines.
- Reduced manual data entry and cross-platform synchronization tasks by 40% through designing complex automation workflows using Python and n8n.
- Saved clients an estimated 25+ hours weekly by engineering robust RESTful APIs to integrate ERPNext with external platforms such as WooCommerce, GrandStream, and custom mobile apps.
- Built offline-first POS systems with real-time sync for multi-branch retail operations, supporting 100+ daily transactions.

IT Specialist | Alwarda Supermarket

Oct 2022 – Dec 2023

Baghdad, Iraq

- Managed IT infrastructure for 50+ POS terminals across multiple retail branches, maintaining reliable connectivity and securing network systems using Mikrotik and Cisco tools.
- Reduced downtime incidents by 60% and hardware procurement costs by 15% through proactive maintenance and strategic vendor management.
- Improved issue resolution time by 70% while providing L2 technical support for ERP and POS systems, conducting consistent root-cause analysis.

OPEN SOURCE CONTRIBUTIONS

Archon — 3 merged pull requests

[coleam00/Archon](#) · open-source harness builder for AI coding, 23,000+ stars

- Reworked workflow node output serialisation so array and object fields substitute correctly as JSON; fixed dependency drift in the server stack; added missing error handling to the web client. Reviewed and merged by the upstream maintainers.

Proposed upstream work (open pull requests)

- MCP cancellation propagation in context-mode (19,000+ stars); host-root supervision with native Windows support in firstmate; a self-improving skill system for mercury-agent; agent identity persistence in agent-comms.

KEY PROJECTS

Note: Systems in production with real users; client names withheld. Personal projects, demos, and the wider catalogue — 80+ repositories plus verified contributions across three organizations — are browsable in my [Interactive Portfolio](#).

Hospital Management Suite

Tech Stack: *Frappe/ERPNext, Python, MariaDB, clinical workflows*

Healthcare application for a private hospital group covering patient admission, appointment scheduling, prescription management, and the clinical workflows around them. Integrated directly with the hospital's existing ERP so administrative and clinical records share one source of truth. The deepest single engagement by sustained delivery history.

Offline POS Synchronisation

Tech Stack: *Python, Frappe/ERPNext, durable queues, Electron, Tauri*

Synchronisation layer that lets point-of-sale terminals keep trading through a network outage, then reconcile against the central ERP once connectivity returns. The hard requirement is idempotency — a retried sync must not double-post a sale. Tuned the closing path against a site carrying over 900,000 sales invoices, where a composite index brought the closing query to 4.6 ms.

LabBridge — Laboratory Instrument Integration

Tech Stack: *Frappe, instrument protocols, structured result mapping*

Connects laboratory analysers to the hospital information system so results reach the patient record without manual re-entry. Handles instrument protocols, result parsing, and the mapping between analyser output and structured lab entries.

Mobile Store Management

Tech Stack: *Frappe/ERPNext, IMEI-level inventory*

Retail management for a mobile-device chain where every unit is individually identified: IMEI-level stock tracking, trade-in handling, warranty records, and the sales workflow that category requires.

VoIP CRM Integration

Tech Stack: *Grandstream VoIP, ERPNext CRM, REST integration*

Bridges Grandstream VoIP hardware into the ERP's CRM: automatic call logging against the customer record, caller identification on inbound calls, and click-to-dial from the CRM screen. Part of the integration work behind the 25+ hours saved weekly for clients.

Infrastructure Monitoring

Tech Stack: *Python, Docker, alerting, multi-site VPS estate*

Monitoring across the ERP server estate — service health, resource trends, and alerting — built to answer which site is degraded before a client reports it.

AWARDS

3rd Place Winner | LabLab.ai AI Genesis Hackathon

Nov 2025

- **Project: EchoMind:** A visual communication tool using generative AI to translate image selections into speech for non-verbal children with autism. Praised for social impact and accessibility-first design.

EDUCATION & CERTIFICATIONS

- Cisco Certified Network Associate (CCNA)
- Mikrotik Certified Network Associate (MTCNA)