

MAHDI AMARIA

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PROFESSIONAL SUMMARY

Backend-focused Full-Stack Software Engineer with hands-on experience building SaaS platforms using PHP, Laravel, MySQL, React, TypeScript, REST APIs, JWT/RBAC, and multi-tenant architecture. Strong at translating complex business workflows into secure, scalable software products, with practical experience in AI-assisted development, automation, and production-ready systems.

TECHNICAL SKILLS

- **AI & LLM Engineering:** AI Agent Orchestration, Prompt Engineering, Context Engineering, Advanced RAG, Structured JSON Schema Enforcing, OpenAI/Anthropic APIs, Cursor/Claude Workflow Optimization.
- **Backend Architecture:** PHP, Laravel, RESTful APIs, State Machines, Multi-Tenant Systems, JWT, RBAC, MVC.
- **Frontend:** React 18+, TypeScript, ES6+, Tailwind CSS, Vite, State Management.
- **Databases & Infra:** MySQL, MariaDB, Relational Schema Modeling, Query Optimization, Database Migrations.
- **Integrations & Tools:** WhatsApp/SMS Gateways, OAuth, Git, GitHub, Jira (Sprints, PRDs), Confluence, Postman.

PROFESSIONAL EXPERIENCE

Co-founder & Lead AI / Software Engineer | NGU Systems

Jan 2025 – Present | Ibtin, Israel

- **Multi-Tenant Architecture:** Engineered core infrastructure for enterprise SaaS platforms (Konvoro & Pulshr), implementing tenant-scoped database isolation and dynamic sub-domain routing.
- **AI Leadership & Mentorship:** Established a high-velocity, AI-native engineering culture. Mentored junior contributors on advanced **Context Engineering**, strict prompt boundaries, and leveraging LLMs (Cursor, Claude) to accelerate feature shipping while maintaining code quality.
- **SDLC Management:** Formulated rigid engineering pipelines by introducing Jira-based sprint workflows and highly technical PRDs for system features and AI integrations.

Case Study 1: Konvoro × VOLTEX Control Systems (AI-Driven CPQ Platform)

- **Context & Challenge:** VOLTEX operated a high-risk, multi-item quoting workflow for electrical panel manufacturing via fragmented manual channels. Preparing highly technical quotes took ~45 minutes, with human calculation errors constantly threatening profit margins.
- **Engineering Solution:** Designed a deterministic **Quote Lifecycle State Machine** (Draft > Internal Approval > Customer Share > Revision). Built secure, signed customer share

links with telemetry to track interactions.

- **AI Breakthrough Implementation:** Developed and deployed an autonomous **AI Quoting Agent** that processes unstructured and complex electrical schematics. Implemented dynamic Context Engineering and strict tool-calling/schema-enforcing layers to compel the LLM to output valid, zero-hallucination JSON payloads mapped directly to the inventory database.
- **Business Impact:** Slashed quote processing latency **from ~45 minutes to under 5 minutes** for live production users. Eradicated manual calculation slip-ups and fully automated high-accuracy enterprise B2B quotation generation.

Case Study 2: Pulshr (Multi-Tenant HR & Attendance SaaS)

- **Context & Controlled Beta Signal:** Small-to-Medium Enterprises (SMEs) faced highly fragmented, manual employee attendance tracking, causing severe end-of-month reconciliation friction.
- **Engineering Solution:** Architected a secure identity management system using JWT authentication coupled with strict Role-Based Access Control (RBAC). Designed transactional time-logging mechanics with server-side timestamp validation to guarantee immutable check-in/check-out auditing.
- **Business Impact:** Deployed a Controlled Beta to active testing facilities, completely eliminating data fragmentation by centralizing daily logs into an automated, single-source-of-truth reporting engine.

Independent Software Developer | Self-Employed

2021 – 2024 | Remote

- **Enterprise Modernization:** Architected bespoke, highly relational database schemas (MySQL) and secure RESTful backend APIs for SMBs across the educational and food-service sectors.
- **System Integration:** Built resilient event-driven notification systems using third-party WhatsApp and SMS gateway integrations to facilitate real-time customer transactional alerts.
- **Product Evolution:** Engineered two foundational software suites that served as the initial IP acquisition for NGU Systems:
 - **EDARO:** Educational center management platform handling high-volume student billing engines and operational metrics reporting.
 - **Restn Plus:** High-throughput food-service order processing and inventory management dashboard.

EDUCATION

- **Diploma in Software Engineering (With Distinction)**
 - Arab College – Haifa, Israel | 2022 – 2025

LANGUAGES

- **Arabic: Native | Hebrew: Professional | English: Professional**