

Amr Nour El-Din Shehab

Software Engineer — Full-Stack SaaS & ERP Architecture

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PROFESSIONAL SUMMARY

Software engineer specializing in frontend architecture with strong full-stack and system-level capabilities. Independently architects, develops, and deploys production-grade SaaS, POS, and ERP platforms for real clients across education, wholesale, and electronics service sectors. Core engineering philosophy centers on high-performance, low-resource software optimized for modest hardware (2GB–4GB RAM) with zero-effort user experience. Integrates on-device AI via local LLMs, develops custom ESC/POS thermal printing solutions with Arabic text rendering, and builds cross-platform deployment systems. Operates under the independent entity A.N | Solutions and collaborates with DeltaBase Software Team and Binary Stack Team on multi-tenant SaaS platforms.

TECHNICAL SKILLS

Frontend

Vue.js (Vue 3, Composition API)
Nuxt.js (for SSR)
React.js (Next.js)
Tailwind CSS
TypeScript, JavaScript (ES6+)
Vue Router, Pinia

Backend & APIs

C# (.NET / ASP.NET Core / EF)
Go (Golang Fiber, Gin)
Fastify.js (Node.js, Bun.js)
RESTful API Design
System Architecture & Integration

Databases

PostgreSQL
SQLite
ORMs like .NET Entity Framework Core, GORM

Systems & Infrastructure

Linux (Debian-based: Arch-based, Fedora-based)
Server Administration & IT Support
Thermal Printer Integration (ESC/POS)
LAN Deployment & Cross-Platform Tooling
Local LLMs (Ollama, Gemma) & AI Integration

PROFESSIONAL EXPERIENCE

Independent Software Engineer A.N | Solutions

2023 — Present

- Architected and deployed full-stack POS, ERP, and management systems for real clients in wholesale and electronics service sectors
- Built ASP.NET Core REST API with PostgreSQL, EF Core auto-migrations, and role-based access for production POS system
- Engineered custom ESC/POS thermal printing engine with Arabic text rendering for invoice and receipt generation
- Designed GitHub-based update system with semantic versioning for controlled production releases
- Optimized software for low-resource hardware (2GB–4GB RAM) across Windows 10 and Linux environments
- Implemented dual-provider AI integration (Google AI Studio, OpenRouter) for intelligent reporting and maintenance suggestions

Frontend Developer & Architecture Contributor DeltaBase Software Team

2023 — Present

- Developed multi-tenant SaaS platform frontend using Vue 3 and Tailwind CSS for educational center management
- Contributed to system architecture decisions ensuring scalability across 14,000–16,000 active records
- Implemented pagination and computed property patterns to optimize UI rendering at scale
- Integrated Telegram Bot API for real-time automated notifications to students and parents
- Built role-based UI rendering system for Admin, Manager, and Employee access levels

PROJECTS

MyAcademy — Multi-Tenant SaaS Platform

Live multi-tenant SaaS platform for educational center management with subdomain-based tenant isolation. Load-tested with 14,000–16,000 records to validate frontend performance at scale. Supports single and multiple instructors within the same institution with isolated data.

Technologies: Docker, Git, Vue 3, Vue Router, Pinia, Tailwind CSS, PHP Laravel, MySQL, PhpMyAdmin, Telegram Bot Integration

Role: Frontend Developer & Architecture Contributor — DeltaBase Software Team

Link: myacademy.tech

- Architected scalable component system handling multi-tenant data isolation across subdomains
- Optimized frontend rendering with pagination and computed properties for large dataset performance
- Integrated real-time Telegram notifications for attendance, payments, and schedule changes

QuantixPro — Production POS System

Full-stack wholesale POS and business operations system deployed in a live local business environment. Features thermal printer and barcode scanner integration, role-based access (Admin, Manager, Employee), and a GitHub-based update system with semantic versioning. Built with cross-platform deployment supporting both Windows 10 and Linux.

Technologies: Docker, Git, Vue 3, Vite, Tailwind CSS (TailAdmin RTL Customized), ASP.NET Core (.NET 10), PostgreSQL, EF Core, ESC/POS

Role: Solo Full-Stack Developer — A.N | Solutions

- Designed complete system architecture from database schema (relational, modular) to UI layer
- Built custom thermal receipt printing engine with Arabic text rendering via image-based printing
- Engineered LAN-based deployment model accessible on local network across multiple client devices and responsive ui to different screen sizes
- Implemented GitHub-based update mechanism with token-secured metadata and semantic versioning
- Optimized for low-resource hardware achieving responsive UX on low end devices

FlexStock — AI-Enhanced Inventory System

Full-stack inventory and maintenance management system for electronics repair shops. Implements dual-provider AI setup (Google AI Studio primary, OpenRouter fallback) for intelligent business reporting and maintenance suggestions. Features automated market price lookup and comprehensive financial tracking.

Technologies: Vue 3, Vite, Tailwind CSS, Fastify.js, SQLite, Google AI Studio, OpenRouter

Role: Solo Full-Stack Developer — A.N | Solutions

- Integrated dual-provider AI pipeline for reliable AI-assisted business reporting with automatic fallback
- Built automated web search pipeline for real-time device market valuation and pricing
- Implemented strict financial tracking module for debts, purchases, and sales accountability
- Designed daily dashboard with AI-generated insights based on system-wide data analysis

and, the list goes on...

EDUCATION

Bachelor of Business Information Systems (BIS) Higher Institute for Commercial Sciences Expected 2027

Third-year student. Relevant coursework: Systems Analysis, Database Management, Web Technologies, Business Informatics, Software Development.

CERTIFICATIONS

Microsoft Certification in C# Fundamentals Microsoft

2024

ADDITIONAL INFORMATION

Languages: Arabic (Native), English (Professional Working Proficiency)

Entity: A.N | Solutions — independent software engineering and consulting

Team: DeltaBase Team

Focus Areas: Problem-solving, Low-resource optimization, local/cloud AI integration, system architecture, ESC/POS systems, cross-platform deployment

Availability: Flex(Freelance / Contract / Remote, etc...)