Zyad Ashraf Amar

Software engineer: Frappe and ERPNext apps, desktop tools and AI agents

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Profile

I am a software engineer in Cairo. Since May 2025 I have built Frappe and ERPNext apps at Data Value Solutions for companies in Egypt and the Gulf: a finance and analytics portal, a parking system with an agent at every gate, tourism and Umrah operations, tax e-invoicing, HR and payroll rules, and integrations with devices and other systems.

On my own, I build and sell apps for Frappe and ERPNext v15 and v16 (Z Essentials, Z Theme, Z Automation and Z Analytics) and ERPNext Docker Manager, a desktop app that runs Frappe and ERPNext on Windows and Linux through Docker, with the licensing behind them. Everything I make works in English and Arabic, light and dark.

I studied computer engineering, with machine learning and deep learning projects, and I still use them: computer vision, prediction models and data analysis. Today I also build AI assistants inside ERPNext and work with AI agents in Claude Code every day.

Experience

Frappe and ERPNext developer May 2025 – Now

Data Value Solutions · Cairo, Egypt

I build Frappe and ERPNext apps for companies in Egypt and the Gulf, in a vendor team. My largest work: a finance and analytics portal with dashboards, financial statements built from formulas, audit ratios, a cash-flow forecast, VAT and an AI assistant; a parking system with an ERPNext app and a Windows agent at every booth that drives the gates and keeps working offline; tourism and Umrah operations with Vue 3 portals; Egyptian Tax Authority e-invoice and e-receipt integrations; a sports club system; and treasury and property apps. Before that, mostly HR and payroll: attendance from biometric devices, penalties, overtime and salary limits. I also review whole apps for security and speed, and write their Arabic translations and user guides.

Independent developer Jun 2026 – Now

Own products · Cairo, Egypt

I build and sell apps for Frappe and ERPNext v15 and v16: Z Essentials (87 everyday Desk tools), Z Theme (45 themes, every colour pair checked for contrast), Z Automation (no-code automations with a visual builder) and Z Analytics (metrics each reader sees only from the records they may read). I build ERPNext Docker Manager, a PySide6 desktop app that runs Frappe and ERPNext v14 to v16 on Windows and Linux through Docker, and the licensing behind my apps on Supabase. I built this website with Next.js and Supabase, with its shop and bilingual admin.

Selected projects

Finance and analytics portal for ERPNext 2026

Companies running ERPNext in the Gulf and Egypt · Frappe · ERPNext · Python · JavaScript · MariaDB · LLM

One portal over ERPNext with dashboards for finance, sales, buying and stock: financial statements built from formulas, audit ratios, a cash-flow forecast, VAT and profitability, with an AI assistant that answers questions from the company data.

https://zyad-ashraf.site/en/work/finance-analytics-portal

ERPNext Docker Manager 2026

Python · PySide6 · Docker · Frappe · ERPNext

A desktop app that runs and manages Frappe and ERPNext v14 to v16 on Windows and Linux through Docker: benches, sites, apps, backups, diagnostics and remote access, with no command line.

https://zyad-ashraf.site/en/work/erpnext-docker-manager

Parking management with gate agents 2026

A car park operator · ERPNext · Python · Pydantic · Modbus · Windows

An ERPNext app for a car park and a Windows agent at every booth: tickets, gates, cashier screens, subscriptions, shop validations and billing, a live page of free spaces, and reminders by SMS and WhatsApp.

https://zyad-ashraf.site/en/work/parking-management-system

Z apps for Frappe and ERPNext 2026

Frappe · Python · JavaScript · Vue · Supabase

Four apps I sell for Frappe and ERPNext v15 and v16: Z Essentials, Z Theme, Z Automation and Z Analytics. Each works in English and Arabic, light and dark, with licence keys from the shop on this site.

https://zyad-ashraf.site/en/work/z-apps-for-frappe

Education

B.Sc. in Computer Engineering Sep 2018 – Jul 2023

Modern Academy for Engineering and Technology · Cairo, Egypt

Very good, GPA 3.027. Graduation project: an online auction system with scheduled and live auctions; I designed its database and queries.

Certificates

Microsoft Machine Learning Engineer Dec 2024

Digital Egypt Pioneers Initiative (DEPI)

Graduation project: Weld Defects Detector, YOLOv5 on six merged datasets, mAP50 0.934.

Data Science Aug 2024

IBM

AI Career Essentials

ALX

Volunteering

Project management Nov 2020 – May 2021

Enactus Modern Academy

Skills

Front end	JavaScript · TypeScript · React and Next.js · Vue 3 · HTML and CSS
Back end	Python · REST APIs and integrations · MariaDB and MySQL · PostgreSQL and Supabase · Database design
ERP	Frappe Framework · ERPNext · Frappe HRMS · Frappe Bench
Desktop	PySide6 (Qt)
AI and automation	AI agents and Claude Code · Machine learning · Deep learning and computer vision · Pandas and NumPy
DevOps	Docker · Linux and Bash · Git and GitHub · GitHub Actions

Languages

Arabic	Native
English	Professional