

OSAMA RAED JENANA

Full-Stack Product Engineer – AI-Powered Systems

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LOCATION Remote · Worldwide

Profile

SUMMARY

Full-stack engineer who takes products from an **empty repository to a running production system** — interface, API, database, mobile client and the server it all runs on. **Six years and 40+ shipped systems** across commerce, healthcare, charity operations and messaging automation, most of them Arabic-first and RTL. Deep experience with the integrations other people avoid: **Meta WhatsApp Cloud API**, Gulf payment rails and ERP synchronisation. Recent work centres on **AI-powered automation** — provider-agnostic assistant layers, real-time voice translation and conversational commerce.

Technical Skills

STACK

Backend	PHP 8 · Laravel 8–13 · Node.js · Express · Fastify · Python · FastAPI · REST APIs · Queue workers	Frontend	Vue 3 · Inertia.js · Nuxt · React · Next.js · TypeScript · Tailwind · Alpine.js · Livewire
Databases	MySQL · MongoDB · Redis · ERD & relational modelling · Multi-tenant schemas · Query tuning & indexing	AI & Automation	OpenAI SDK · Provider-agnostic AI layers · Speech recognition · Conversational flow engines · Playwright
Mobile	Flutter · Dart · Pigeon platform channels · Kotlin · Swift · PWA	Infrastructure	Docker · nginx · Ubuntu VPS · PM2 · WebSockets · Let's Encrypt · CI/CD
Integrations	Meta WhatsApp Cloud API · Thawani · JawwalPay · Apple Pay · Odoo & SmartLife ERP · Firebase · OneSignal	Practices	Pest / PHPUnit · Git & code review · Arabic RTL & i18n · Threat modelling · Technical documentation

Professional Experience

EXPERIENCE

Full-Stack Developer Muscat Apps 2022 — Present

- Own products **end to end**: domain modelling, Laravel and Vue implementation, mobile APIs, server provisioning and ongoing operation.
- Built a **WhatsApp-native commerce platform** — stateful flow engine, HMAC-signed Node gateway for Meta protocol handling, and role-separated dashboards backed by **53 test files**.
- Delivered integrations across **payment rails** (Thawani, JawwalPay, Apple Pay) and **ERP systems** (Odoo, SmartLife), including invoice delivery over WhatsApp.
- Design relational schemas reaching **78–96 domain models and 100+ migrations**, then build the reports, dashboards, role-based permissions and approval workflows on top of them.
- Maintain long-lived platforms in production — one charity system has passed **600 commits** under continuous ownership.

Backend Developer Muscat Apps 2021 — 2022

- Built Laravel backends and REST APIs for multi-vendor marketplaces and e-commerce platforms serving web and mobile clients.
- Introduced **Redis-backed queue workers** to move heavy work off the request path, and took on VPS provisioning and deployment.

Backend Developer — Freelance Independent 2019 — 2021

- Delivered Laravel applications for clients across retail, clinics and education — handling requirements, build and deployment single-handedly.

AI Engineering

AI

Systems I build	Provider-agnostic assistant layers · Conversational state machines · Speech-to-speech pipelines · Queue-backed inference · Cost and quota control
Daily workflow	OpenAI SDK · Claude · GitHub Copilot · Cursor — drafting, refactoring, test generation and documentation, always reviewed before merge

WhatsApp-Native Commerce Platform

2025 – Present

A multi-branch store whose entire storefront is a WhatsApp conversation — no app, no website. A stateful flow engine drives the conversation, a separate Node gateway handles Meta protocol translation and signature verification, and two Laravel dashboards give head office and each branch live control over orders, catalog and hours.

176 PHP files · 23 models · 44 migrations · 53 Pest test files · 74 Vue components

Laravel 13 · Vue 3 + Inertia · Laravel Reverb · Meta WhatsApp Cloud API · Fastify · Redis · MySQL · Thawani

Dental Center Management Platform

2025 – Present

A full clinic operation: patients, appointments, treatments, prescriptions, inventory, billing and payroll. The hard part is not CRUD — it is payment allocation and the doctor-earnings engine, where a rounding mistake becomes a real dispute between a clinic and its staff. Arabic RTL throughout, real-time over WebSockets.

78 models · 138 migrations · 252 PHP files · 303 Blade views · 185 commits

Laravel 12 · Blade + Alpine.js · Tailwind 4 · Laravel Reverb · MySQL · Arabic RTL

Zakat & Social Welfare Platform

2021 – Present

Donation collection, beneficiary casework and orphan sponsorship for charitable organisations — recurring donations, family assessments, chronic-illness and disability records, and committee decisions. Six years of continuous ownership across two deployments.

607 commits · 96 models · 119 migrations · 198 Vue components

Laravel · Vue · Blade · MySQL · Docker · Thawani · SMS OTP

Omnichannel AI Assistant

2026 – Present

An automated reply system serving every Facebook page, Instagram account and WhatsApp number a company owns from a single deployment. The AI layer sits behind a provider interface, so the model can be swapped without touching conversation logic.

3 channels from one webhook · any AI provider, swappable

Node.js · Express · OpenAI SDK · Meta Graph API · WhatsApp Cloud API · Instagram Messaging

Sila — Offline-First Mesh Messenger

2025 – Present

Peer-to-peer messaging with no internet, no servers and no SIM: a self-healing Bluetooth Low Energy mesh where every phone is a relay. Native BLE on both platforms is bridged into Flutter through Pigeon-generated platform channels.

69 Dart files · 15 test files · 9 architecture documents · 0 backend servers by design

Flutter · Dart · Bluetooth Low Energy · Pigeon · Kotlin · Swift · Mesh routing

Real-Time Voice Translation

2024 – 2025

A Python speech service handles recognition and translation while a Laravel control plane manages speakers, subscriptions and quotas. Everything expensive runs through Redis-backed queues, so a slow model response never blocks a request.

2 independently deployed services · Python for inference, Laravel for control

FastAPI · OpenAI · SpeechRecognition · NumPy · Laravel · Redis queues

Also shipped: multi-tenant clinic SaaS · multi-surface retail platform (four products, one codebase) · hosting billing & provisioning panel · government services over WhatsApp · school management system · country-scale places data harvester · Windows desktop app · Umrah booking. Full case studies at osamajenana.com.

Education

EDUCATION

MSc, Computer Engineering

Islamic University of Gaza

2023 – PRESENT

BSc, Software Development

Islamic University of Gaza

2019 – 2023

Languages & Availability

MORE

Arabic: Native **English:** Professional working proficiency

Available for a practical technical assessment or a live walkthrough of any system above.