

ORWA MAHMOUD

SENIOR SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Full-stack engineer with 10+ years shipping production web applications end to end — Python (FastAPI) and Node/NestJS backends behind React and Angular frontends. Takes products from an empty repo to live on Azure — containerised with Docker, automated CI/CD, clean architecture (DDD, hexagonal, event-driven) — and has led teams delivering platforms used by thousands.

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, PHP

Backend: FastAPI, Celery, NestJS, Express.js, Node.js, Laravel

Frontend: React, Next.js, Angular (12 → 20), Vue.js, Ant Design, Mantine, TanStack Query

Cloud & DevOps: Azure (Container Apps, Web Apps / App Service, ACR), AWS (EC2, S3, ECS), Docker, Kubernetes (RKE2), Rancher Fleet (GitOps), GitHub Actions, GitLab CI

API Gateways: KrakenD, Azure API Management

Data & Messaging: PostgreSQL (pgvector), MySQL, MongoDB, Redis, RabbitMQ, Kafka

Payments: Stripe, N-Genius (Network International), Rossom (Dubai Trade)

Architecture: REST, GraphQL, WebSocket · DDD, Hexagonal, Event-Driven, Microservices, Multi-tenant SaaS, CQRS, API Gateway

BPM & Workflow: Camunda BPM, Flowable, BPMN 2.0

Identity & Auth: Keycloak, OAuth 2.0 / OIDC, UAE PASS, Active Directory (LDAP)

AI & LLM: LangChain, LangGraph, RAG, FastMCP — production AI agents

AI Dev Tools: Cursor IDE, Claude Code

WORK EXPERIENCE

Senior Full Stack & Platform Engineer — Ports, Customs & Free Zone Corp. (PCFC), Dubai, UAE (Contract) 03/2024 – Present

- Part of the Solution Team (R&D) within CSS-Technology & Digital Transformation — architect production-grade POCs for development teams to ship, and deliver full products end to end
- Designed and deployed two production AI agents (Dana & Nahham) in Python, FastAPI, LangGraph, and Azure OpenAI — agentic RAG, FastMCP tools, and real-time voice — serving thousands of users across Microsoft Teams, SharePoint, WhatsApp, Telegram, and web
- Delivered the Marsa berth-lease attestation platform end to end (Angular 20 + NestJS 11) — interactive marina map, multi-provider auth (UAE PASS, Active Directory), Dubai Trade payments, and bilingual EN/AR with RTL
- Built a Capacity Planning platform (NestJS + React) that replaced an Excel-based process for ~300 staff
- Took over and modernised the Security operations platform (Angular 12 → 18), extending Camunda BPMN approval workflows for incidents, inspections, violations, and gate passes
- Built a centralised NestJS middleware (16 modules) unifying government, payment, and messaging integrations across delivery teams
- Contributed to OneBase, an internal Kubernetes platform (RKE2 + Rancher Fleet GitOps, KrakenD gateway), and OnePass, a custom Keycloak identity service (CIBA passwordless, MFA, magic-link)
- Containerised and migrated existing on-prem applications to Azure with GitHub Actions CI/CD

Full Stack Web Developer — Shooty, Dubai, UAE

10/2022 – 03/2024

- Contributed to Shapes Defined, an e-commerce photography production platform (Laravel + Vue.js) covering the full asset lifecycle — barcode-scanned inbound, inventory, photographer dispatch, media upload, post-production editing, QA with Fabric.js annotation, and a client approval portal — with dual-S3 watermarking, streaming ZIP downloads, and real-time notifications; drove a 200% increase in studio productivity
- Built Shooty, a multi-tenant SaaS for content creators — workspace collaboration with team invitations, a shoot → edit → client QA → approve/reject workflow, and content-writing tools (RabbitMQ microservices)

Backend Team Leader — Digital Limits, Lebanon (Remote)

01/2021 – 10/2022

- Promoted to Team Leader within 8 months; recruited, trained, and led a team of 6 developers
- Built a Laravel + Vue.js base template adopted company-wide, cutting new-project setup time by 50%
- Led migration of 5,000,000+ articles off a legacy Zend platform
- Delivered Minbaladeh, an online supermarket (Laravel + Vue.js, N-Genius payments, Dolphin ERP)
- Built MEDNSF, the ICANN Middle East DNS Forum platform with a custom CMS

Full Stack Web Developer — Storex Web, Italy (Remote)

08/2017 – 01/2021

- Delivered 10+ client applications using Angular, Node.js, and Symfony with GraphQL and REST APIs

Full Stack Web Developer — SCIT, Syria (Part-time)

07/2015 – 08/2017

PROJECTS

Salma — Clinic Operations SaaS (Personal · full-stack)

Role: Founder & Sole Engineer

Tech: Python, FastAPI, PostgreSQL, Redis, Celery, React 19, Mantine, TanStack Query, Docker

A from-scratch multi-tenant SaaS that runs a clinic end to end — a React/Mantine dashboard plus an AI assistant over a FastAPI backend. Patients book appointments against real doctor availability, rooms, and equipment; staff manage services, offers, insurers, schedules, and patient records. Omni-channel chat + voice, analytics, role-based access, subscription billing, and full i18n + RTL.

PropertyBot — Multi-Tenant Real Estate AI (Personal · full-stack)

Role: Founder & Sole Engineer

A white-label AI assistant for real-estate agencies: clients search properties in natural language, get matched listings, and schedule viewings with broker confirmation across WhatsApp, Telegram, and voice — each agency with isolated data, branding, and its own bot personality.

AdaptTable — Open-Source React Data-Table (published on npm)

Role: Creator & Maintainer (open source, MIT)

Tech: TypeScript (strict), React 19, pnpm + Turborepo monorepo (8 packages), Vitest, GitHub Actions

A headless, UI-agnostic React data table on npm — an 8-package monorepo with adapters for Mantine, MUI, Chakra, Ant Design, and Tailwind/shadcn, one data-source contract for client- and server-side data, URL-synced state, column management, virtualization, and i18n + RTL.

EDUCATION

Bachelor's Degree in Information Technology

Tishreen University, Latakia, Syria | 09/2012 – 07/2017

LANGUAGES

English: Professional Working Proficiency | Arabic: Native