Tawfik Ahmmed

Senior Backend Engineer | Multi-Tenant SaaS & Platform

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Portfolio: tawcode.com | **GitHub:** github.com/tawwfik
Flagship product: Masar ERP (SMART-ERP) — masarerp.com | App: web.masarerp.com/central/login

PROFESSIONAL SUMMARY

Senior Backend Engineer with 6+ years designing and operating multi-tenant cloud ERP platforms—from landlord control plane and database-per-tenant isolation to GL posting, POS APIs, e-invoicing compliance, queues, CI/CD, and production Linux hosts. Primary ownership: Masar ERP (SMART-ERP), a Laravel 13 SaaS on stancl/tenancy with 17 plan-gated modules, Sanctum POS App API, ZATCA e-invoicing, and tenancy-hardening CI. Strong platform skills: Ubuntu, Apache/PHP-FPM, Docker, Cloudflare SSL, GitHub Actions to VPS, plus self-hosted AI services (RAG / pgvector / Ollama) when required.

SKILLS

Backend: PHP · Laravel · Node.js · Express · Python · FastAPI · REST APIs · OpenAPI · Sanctum · JWT · Eloquent · Sequelize · Redis · MySQL · MariaDB · PostgreSQL · Queues · Supervisor

Multi-Tenant SaaS / ERP: stancl/tenancy · Database-per-tenant · Landlord/Tenant architecture · Spatie Permission · Activity Log · Module entitlements · Branch scoping · GL posting · Inventory · POS · Accounting · ZATCA · Manufacturing / MRP · HR

Integrations: ZATCA e-invoicing · Neoleap payments · ZKTeco · Scribe / OpenAPI · PDF generation

DevOps / Servers: Ubuntu Server · Apache · Nginx · PHP-FPM · Docker · GitHub Actions · Cloudflare · Fail2ban · Contabo VPS · AWS (EC2, RDS, ElastiCache, ALB, S3) · Prometheus · Telescope · Pulse

AI (Supporting): RAG · Ollama · pgvector · n8n · FastAPI microservices

Frontend / Mobile (Secondary): Vue · React · TypeScript · Vite · Blade · Flutter API clients

Bayt skill keywords: Software Engineering · Software as a Service (SaaS) · Laravel · Project Management · Backend Development · System Architecture · Cloud Computing · API Development

WORK EXPERIENCE

Senior Backend & Platform Engineer

Company: Masar Soft | **Industry:** Information Technology / Computer Software | **City:** Riyadh | **Country:** Saudi Arabia
Employment type: Full-time | **Start date:** March 2020 | **End date:** Present

Lead backend engineer for Masar ERP (SMART-ERP)—multi-tenant cloud ERP for finance, inventory, multi-branch operations, and POS (masarerp.com · web.masarerp.com). Own flagship codebase tenant-template from architecture through CI/CD and production operations.

- **Architected database-per-tenant SaaS ERP** (Laravel 13 + stancl/tenancy) with landlord, tenant, and tenant_template database planes for strong customer isolation.
- **Built tenant lifecycle:** create DB → migrate or clone template → provision company/branch/FY/COA/tax/warehouse → plan RBAC sync.
- **Owned 17 plan-gated ERP modules** (Accounting, Tax, ZATCA, Inventory, Sales, Purchasing, POS, Manufacturing, HR, CRM, Assets, Products, Subscriptions, platform modules) with Controller → Service → Model layering and domain policies.
- **Implemented GL posting SSOTs** so sales/purchasing/POS/manufacturing post idempotent journals with inventory issuance.
- **Delivered ZATCA e-invoicing module** (XML, signing, CSR/certs, submit-once, QR/PDF) wired to tax and POS.
- **Shipped Sanctum POS Desktop App API** (/api/pos/v1) with branch context, refresh tokens, and OpenAPI/Scribe docs.
- **Enforced SaaS controls** (subscription, modules, limits, branch access) with governance CI; hardened Octane/queue tenancy isolation.
- **Integrated Neoleap checkout** and ZKTeco biometric attendance; ran Vite ×3 builds and GitHub Actions → Contabo deploy.
- **Built ops tooling:** shard doctor, tenant backup/restore, Prometheus metrics, Pulse/Telescope; maintained live ledger integrity (settlements, bank↔GL matching, POS shift SSOTs).
- **Designed AWS scale-out blueprints** (EC2, RDS, ElastiCache, S3, ALB) and planned DNS cutovers keeping API URLs stable for POS clients.

Backend & Infrastructure Engineer

Company: Self-employed | **Industry:** Information Technology | **City:** Riyadh | **Country:** Saudi Arabia
Employment type: Freelance / Contract | **Start date:** March 2020 | **End date:** Present

- **Administer Ubuntu production servers** (Apache, PHP-FPM, Virtualmin, MariaDB, Fail2ban, Docker) for multi-vhost hosting.
- **Resolved Cloudflare Error 526** with wildcard Origin CA and Full (Strict) TLS; documented hardening for SSH, firewall sequencing, and Docker publish surfaces.
- **Delivered production backends** for Saher Soft and Vizo; built Misbar Quantum private RAG (Laravel + FastAPI + Ollama + pgvector).

EDUCATION

Bachelor's Degree — Computer and Media Sciences

Institution: Thamar University (Dhamar University) | **City:** Dhamar | **Country:** Yemen

Start date: March 2015 | **End date / Graduation:** March 2019 | **GPA:** 94%

Graduated with a strong academic record in Computer Sciences, completing multiple software development projects during studies.

FLAGSHIP PROJECT — MASAR ERP (SMART-ERP)

Product: masarerp.com | **App:** web.masarerp.com/central/login | **Repo:** github.com/tawwfik/tenant-template | **Role:** Senior Backend / Platform Architect

Landlord + database-per-tenant ERP (stancl/tenancy); 17 modules including Accounting, ZATCA, Inventory, POS API, Manufacturing, HR; Sanctum, 2FA, Spatie RBAC; Vite ×3, tenancy-hardening CI, Contabo deploy, Prometheus.

LANGUAGES

- **Arabic** — Native / Mother tongue
- **English** — Intermediate / Professional working (written technical)

OTHER PROJECTS

- Smart ERP APIs (Node/Laravel, OpenAPI)
- Production Linux / Cloudflare platform ops
- Misbar Quantum RAG · Vizo · Saher Soft

All work experience locations: Riyadh, Saudi Arabia · Education location: Dhamar, Yemen
Product: masarerp.com · Portfolio: tawcode.com