

Backend-focused full-stack engineer who builds secure, multi-tenant backend systems and ships them to production. Started in **Java, Kotlin, Spring Boot, and Ktor**, now work across **Laravel/PHP, TypeScript/Node, Java/Kotlin, and WordPress** depending on the job. Designed and built **FoloEngine**, a licensed multi-tenant commerce engine powering multiple live storefronts and a marketplace, with HMAC-signed APIs, capability gating, payments, and append-only loyalty and gift-card ledgers. I own architecture end to end, from API contracts and data modeling through CI/CD, security hardening, and releases, and I work in an **AI-driven workflow (Claude Code, Codex, Cursor)**. I also build AI into products: **RAG** and agent systems using **A2A** and the **Agent Development Kit (ADK)**.

Core Expertise

- Multi-tenant backend systems
 - Authentication & authorization (JWT, RBAC)
 - Database design & data modeling
 - Security hardening & observability
- Licensed engine & control-plane design
 - HMAC-signed APIs & webhook security
 - Clean, modular & package architecture
 - AI-driven development workflows
- REST API design & integration
 - Payments (Stripe Connect, COD, CliQ)
 - CI/CD pipelines & production deploys
 - AI engineering (RAG, A2A, ADK)

Technical Skills

Languages	Java, Kotlin, PHP, TypeScript, JavaScript, SQL
Backend	Spring Boot, Ktor, Laravel 12, Filament, Node.js (Express, Hono). REST API design, Sanctum / JWT auth, RBAC, HMAC request signing, DTO validation, async processing.
WordPress / CMS	WordPress, WooCommerce. Theme and plugin development, block / FSE themes, Elementor, WP REST API, e-commerce builds.
Architecture	Multi-tenant systems, licensed engine + control-plane, Composer package architecture, Clean / modular / layered design, capability gating, append-only event ledgers.
Databases	PostgreSQL, MySQL, SQLite, MongoDB, Redis, TimescaleDB, Supabase. Eloquent, Prisma, Drizzle, Spring Data JPA. Schema design, query optimization, migrations.
Payments	Stripe Connect (embedded checkout, signed idempotent webhooks), Cash on Delivery, CliQ. Idempotent redemptions, money in minor units.
DevOps & Infra	Git, GitHub, CI/CD (GitHub Actions), Docker, Linux VPS (Hostinger, Contabo), Nginx, Sentry, environment config, health checks.
Testing	Pest, PHPUnit, JUnit 5, Playwright (E2E), Postman.
AI-Driven Dev	Claude Code, OpenAI Codex, Cursor. AI-assisted implementation, refactoring, debugging, and code review with human-owned design and quality gates.
AI Engineering	Retrieval-Augmented Generation (RAG), agent-to-agent systems (A2A), Agent Development Kit (ADK). Tool-using agents and LLM integration into backend products.
Frontend	Next.js, React, Blade, Alpine.js, Tailwind CSS, GSAP, Three.js. Bilingual EN/AR and RTL.

Experience

Folowise - Amman, Jordan (Hybrid) <i>Backend Engineer</i>	Jan 2025 - Present
- Architected and built FoloEngine, a licensed multi-tenant commerce engine (Laravel 12, PHP 8.4, Filament) shipped as a Composer package plus control-plane, now powering multiple production storefronts and a marketplace. - Designed signed engine APIs: HMAC request signing with nonce / replay protection, license issuance / rotation / revocation with append-only audit, and a fail-closed capability gate for per-site features. - Built the commerce core: catalog, variants, bundles, atomic checkout, a payment registry (COD, CliQ, Stripe Connect) with signed idempotent webhooks, and promo / loyalty / gift-card modules on append-only ledgers. - Delivered a multi-vendor marketplace (three-role RBAC, per-vendor checkout split) plus engine-powered client storefronts, and a hardened mobile API (Laravel Sanctum, JWT, Google RS256 / JWKS). - Hardened security (TOCTOU race fixes, AES-at-rest secrets, CSP, CVE patching) and built CI/CD (GitHub Actions) to Linux VPS with Sentry and large Pest / PHPUnit suites. - Drove delivery with an AI-driven workflow (Claude Code, Codex, Cursor) while owning architecture, ADRs, code review, and releases, and integrated AI features (RAG, agents).	

Backend Engineer

- Started professional backend development while studying, building REST APIs with **Java, Kotlin, Spring Boot, and Ktor**.
- Built **Node.js (Express)** services: modular REST APIs, CRUD, pagination, and user-scoped access with validation and business rules.
- Implemented **JWT auth**, protected routes, validation / error-handling middleware, and async request handling; worked with PostgreSQL / MySQL schema and migrations.
- Collaborated via **Git, pull requests, and code reviews** in an Agile/Scrum workflow.

Dragon Internet Cafe - Amman, Jordan

2017 - 2022

Owner / Manager

- Managed daily operations, finances, staff scheduling, and customer service for the business.
- Kept a stable workflow and high service quality, building early ownership and people-management experience.

Key Projects

FoloEngine - Multi-Tenant Licensed Commerce Engine

FLAGSHIP PLATFORM

Laravel 12, PHP 8.4, Filament, Composer package, Pest / PHPUnit, SQLite + per-tenant MySQL / PostgreSQL

Reusable commerce engine (**folowise/commerce**) plus a control-plane that licenses and governs multiple storefronts. HMAC-signed activation APIs with replay protection, hashed rotatable license keys with append-only audit, and a fail-closed capability gate over 19+ per-site features. Commerce core covers catalog, variants, bundles, atomic checkout, a payment registry (COD / CliQ / Stripe Connect with signed idempotent webhooks), and promo / loyalty / gift-card modules on append-only ledgers, with companion packages for auth, notifications, and a Sanctum mobile API.

Folowise Souq - Multi-Vendor Marketplace

LIVE IN PRODUCTION

Laravel 12, Filament 5, Blade + Alpine.js, Tailwind v4, MySQL, GSAP, Three.js, Leaflet

Local-business marketplace and directory built on **three-role multi-tenant RBAC** (admin, store-owner, customer) with a store approval workflow. Marketplace-native cart with one-order-per-store checkout split, per-store COD / CliQ and analytics, verified-buyer reviews, a per-store leads inbox, search / suggest APIs, and SEO / AEO (JSON-LD, sitemap). Live with real orders.

FoloPrint - Production Print-Shop Storefront

LIVE IN PRODUCTION

Laravel, Blade + Alpine.js, Tailwind v4, MySQL, FoloEngine via Composer, GitHub Actions, Sentry

Live custom-apparel e-commerce and the flagship engine host: variable and bundle products, tiered pricing, customer auth (Continue-with-Google), team RBAC, owner admin with home-tiles CMS, COD / CliQ payments, guest checkout, Web Push, and first-party analytics. Bilingual **EN / AR**, Lighthouse SEO 100, CI/CD to VPS, with a large automated test suite.

qrfole - Dynamic QR & URL-Shortener SaaS

TYPESCRIPT MONOREPO

TypeScript, Hono + Drizzle ORM, PostgreSQL / TimescaleDB, Redis, NATS, Vite + React, Astro, Docker

Dynamic QR and short links across content types (URL, WiFi, vCard, file, text) with password gating, expiry, and **geo / device / language targeting plus split testing**. Synchronous click counting with an async analytics consumer (NATS to TimescaleDB) and bot exclusion, a redirect-rules engine, JWT auth, and 30 migrations with hypertables. **230/230 tests green**, Docker Compose infrastructure.

EchoFlow - Offline Voice-to-Text Desktop App

DESKTOP · ON-DEVICE AI

Tauri 2, Rust (whisper-rs / whisper.cpp), React + TypeScript, cpal audio, SQLite, GitHub Actions

Free, offline English / Arabic **voice-to-text desktop app** for Windows. Local Whisper (whisper.cpp via **whisper-rs**) transcribes on-device CPU with no cloud and no paid APIs. Push-to-talk with a global hotkey, translate / clean / prompt modes, searchable transcript history, export to txt / srt / docx, and one-click auto-update. **Tauri 2 Rust core** with a React / TypeScript webview; audio capture and 16 kHz resampling in Rust (cpal).

API Starter - Spring Boot + Kotlin Reusable Backend Foundation

TEAM PROJECT

Spring Boot, Kotlin, PostgreSQL, Flyway, Spring Security / JWT, Docker, Git/GitHub, Firebase Studio (prototype)

Production-ready starter repository used as the base for all backend projects. Clean layered architecture (Controller / Service / Repository) with DTO-only responses, full **JWT auth** (register / login / refresh / logout) with BCrypt and role-based security (ADMIN / USER), a unified pagination contract, global error handling with a single envelope and proper HTTP status mapping, **Flyway migration-only** schema management, environment profiles (local / dev / staging / prod) with no secrets in code, configurable CORS, and a Git/GitHub workflow (protected main, feature branches, conventional commits, PR reviews). Paired with a **Firebase Studio frontend prototype** wired to the APIs: auth flow, role-based routing, an owner dashboard (metrics / charts), paginated notifications, and profile management.

Folowise - Company Website (folowise.com)

LIVE IN PRODUCTION

Next.js (App Router), React, TypeScript, i18n EN / AR, next/image, JSON-LD SEO

Full-stack bilingual **EN / AR** corporate site for the Folowise technology and marketing consultancy and its Academy: 12 service areas across three practices, seven bootcamp tracks, careers, and a contact / lead flow. Built on **Next.js App Router** with localized routing and RTL, server-rendered pages, optimized media via next/image, and full **SEO / AEO** (Open Graph, Twitter cards, structured metadata and JSON-LD). Live at folowise.com.

Pet E-Commerce Website - Two Builds (WordPress + Laravel / FoloEngine)

FOLOWISE CLIENT

WordPress / WooCommerce; Laravel 12 + folowise/commerce engine, Blade + Alpine.js, Tailwind, per-tenant DB

Pet-supply e-commerce store delivered in two builds: a **WordPress / WooCommerce** version, and a **Laravel rebuild powered by FoloEngine**. The Laravel build was the first production tenant proving the engine model: engine-wired catalog with an idempotent migration command, attribute CRUD against engine REST APIs, an owner admin (16 pages) behind a separate guard, and license / capability provisioning (20 capabilities). Promo / loyalty / gift-card checkout verified in-browser. **AR-first RTL** with SEO / AEO schema.

FoloPrint Design Studio - Browser Product Design Editor

RENDER PIPELINE

TypeScript npm-workspaces monorepo, Next.js, Node API, Prisma 6 + PostgreSQL, Fabric.js, sharp, Playwright

Printful-class editor that places artwork and text on garments and generates print-ready files plus realistic mockups, with a shared geometry package keeping **editor and server output in parity**. Server render pipeline (SVG to sharp) with a concurrency limiter, ID-based asset streaming, upload re-encode (EXIF strip), and per-color garment derivation via an admin API.

WordPress, Elementor, custom CSS, responsive QA

Client construction website built and maintained at Folowise. Responsive pages in **WordPress + Elementor** (layout, typography, spacing, sections) with targeted custom CSS for alignment and consistency across desktop / tablet / mobile. Ran **full website QA**, logging UI issues (missing elements, spacing, overlap, responsiveness) in a structured tracker with severity and expected fix, then re-tested after each fix.

Education

Higher National Diploma - Construction & Built Environment (Civil Engineering)

2019 - 2022

Luminus Technical University College (LTUC), Amman, Jordan

- Moved into software engineering through self-directed study and real production work, building a professional backend portfolio across Java / Kotlin, Laravel / PHP, and TypeScript / Node.

Languages

- Arabic - Native
- English - Fluent