

Huzayfa El Hussein

Backend / Full-Stack Software Engineer — Spring Boot (Java & Kotlin)

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SUMMARY

Software engineer with 7 years building production backend systems, APIs and mobile apps. Strong in Spring Boot (Java and Kotlin), with multi-tenant architecture, secure stateless authentication, and regulatory and domain modelling. Deep native Android and iOS experience, plus Kotlin Multiplatform, and full-stack delivery in React and TypeScript. Trusted as a sole engineer to own systems end to end, from database and API design through frontend and app release. Based in Germany on an EU Blue Card.

CORE SKILLS

Backend Kotlin, Java, Spring Boot, REST API design, JWT authentication and refresh-token rotation, JPA/Hibernate, Flyway, Liquibase, PostgreSQL, MySQL, Redis. Symfony/PHP (maintenance and integrations)

Mobile Native Android (Kotlin, Jetpack Compose, Coroutines/Flow, Hilt, MVI, Clean Architecture), native iOS (Swift, SwiftUI), Kotlin Multiplatform + Compose Multiplatform, Retrofit, FCM

Frontend React, TypeScript, Vite, Tailwind CSS, MUI

Infra & Tools Docker, Jenkins, GitLab CI, Hetzner, Render, Cloudflare Pages, AWS (EC2/S3), Google Document AI, Sentry, Git, JIRA

Practices Multi-tenancy, clean/hexagonal architecture, functional testing, event-driven design, internationalisation (EN/DE/AR incl. RTL)

EXPERIENCE

Software Engineer — Tecson GmbH & Co. KG

01/2025 – Present

Kiel, Germany · Full-time · Sole engineer for backend, web and both mobile apps (tank-measurement products). Engaged remotely as a freelancer in 2024 before relocating and joining full-time.

- Designed and built a new stateless REST API (v3) using JWT access tokens with rotating, server-revocable refresh tokens, including reuse detection and scheduled cleanup. It replaced a legacy CSRF and X-AUTH-TOKEN scheme and now serves as the single backbone for the revamped mobile apps and a new CMS.
- Rebuilt both mobile apps end to end. Android in Kotlin and Jetpack Compose (Clean Architecture, MVI, Hilt) and iOS in Swift and SwiftUI, with a clear improvement in performance and load times, and full runtime control of content and features from the CMS.
- Built SmartSense, the company's first CMS (React, TypeScript, Tailwind), so non-developers can manage products, banners, feature flags and localized content across new and legacy apps without a developer deploy.
- Implemented a Lexoffice integration that auto-generates invoices directly from the system, removing duplicate manual entry. Digitised customer onboarding as well, replacing an email-and-paper process with an approval-to-activation flow.
- Built a Kotlin and Spring Boot microservice that computes daily national heating-oil price averages, exports a branded PDF, emails it, and feeds the company website charts over SFTP. It replaced a manual daily task and keeps 30 days of history.
- Maintain the legacy Symfony/PHP backend and the React web app, and lead the Symfony 4.4 to 5.4 and PHP 7.4 to 8.3 upgrade.

Freelance Backend Engineer — CarSolu (Dealership SaaS)

2025 – Present

Remote, Germany · Sole engineer · Multi-tenant platform for German car dealerships, delivered to a working MVP. Stack: Kotlin · Spring Boot · PostgreSQL · Redis · React/TypeScript · Docker

- Architected strict per-dealership multi-tenancy, with every repository finder scoped by tenant. Identified and closed a cross-tenant data leak, and centralised role-based authorization in a single policy map shared across backend and frontend so permission rules cannot drift.
- Built a German vehicle regulatory engine. Extracted the KBA type-approval register (37,864 rows) from PDF into a queryable dataset, reverse-engineered the undocumented fuel-code table, and implemented a §9 KraftStG tax calculator with post-2021 CO₂ bands, verified to the euro against known vehicles.
- Automated OCR document intake using Google Document AI, including a custom processor trained on annotated Fahrzeugschein (vehicle registration) samples, plus MRZ parsing for ID cards and passports with check-digit repair. This cut vehicle intake from around 20 manually typed fields to a photo and a quick review.
- Integrated mobile.de listing publication through a transactional outbox so listings are never lost or double-sent, added distributed rate limiting with a Redis Lua token bucket, and designed GDPR and GwG compliance gating into the data model.

Software Engineer (Android & Backend) — FOO SAL (client: Zain KSA)

04/2021 – 12/2024

Beirut, Lebanon · Fintech, large team

- Revamped the Zain KSA Android app with a redesigned UI and new features, raising its store rating to 4.3+. Refactored the network layer with Retrofit for significantly faster and more reliable data communication.
- Built and integrated Java and Spring Boot microservices, including KYC and MoneyGram integrations that call third-party providers via RestTemplate and expose internal APIs to the core platform. Used application event listeners for decoupled, event-driven flows.
- Ran CI/CD with Jenkins to build and deploy per environment for backend and mobile, managed database migrations with Liquibase, and practised TDD and GitLab code review to reduce release bugs and crashes.

Android Engineer — Madarej Al ELM (Dar Ain)
Tripoli, Lebanon · E-learning

08/2019 – 04/2021

- Delivered 3 e-learning Android apps with video, audio and voice-recognition content. Led 3 junior developers from concept to the company's first product launch on both Android and iOS within a year, and introduced MVVM to reduce boilerplate.

SELECTED PROJECTS

Duet — Cross-platform household app
Kotlin Multiplatform + Compose Multiplatform · Kotlin/Spring Boot · PostgreSQL

Solo · In active development

- Shared Android and iOS UI from one Kotlin Multiplatform codebase. Household-scoped multi-tenancy is enforced at the token layer, refresh tokens are opaque and rotating with reuse detection, and membership is modelled as a lifecycle join entity backed by a Postgres partial unique index. The design system covers EN, DE and AR with full RTL and runtime language switching.

Biban (freelance, 2022–2023). B2B networking app for the Saudi market with a real-time chat feature (Android).

EDUCATION

M.Sc. Computer & Communication Engineering
B.Sc. Telecommunications Engineering

Lebanese International University, 2021
Lebanese International University, 2019

LANGUAGES

Arabic (native) · English (professional) · German (A2, improving)