

SALIH KAVAF

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Professional Summary

Battle-tested Senior Engineer combining deep architectural expertise in **.NET** and **Flutter** with a background in International Trading. I specialize in architecting high-performance systems where failure is not an option—from migrating legacy Desktop ERPs to Cloud-native SaaS, to engineering proprietary frameworks and distributed e-commerce platforms. With trilingual fluency and uncompromising standards, I deliver resilient, business-critical solutions.

Technical Skills

Languages: C#, Dart, Rust (Core Modding), PHP, C++/CLI, SQL, TypeScript, Kotlin, Swift

Mobile: Flutter (Clean Architecture), Drift (Local-First DB), Cordova, Riverpod

Backend: ASP.NET Core, Entity Framework, Laravel, gRPC, Node.js, SignalR, Next.js

Infrastructure: HashiCorp Stack (Nomad, Consul, Vault), Docker, IIS, Self-Hosted Orchestration

Tools: Git, Appwrite, PostgreSQL, MySQL, Database Migration Engines

Featured Engineering Projects

Kanz: Budget & Expense | *Lead Architect & Developer* | *Closed Beta* **2025 – Present**

- Architected a production-grade Fintech app using **Flutter** and **Clean Architecture**, strictly separating Domain, Data, and Presentation layers for maintainability.
- Engineered a custom multi-currency engine with real-time conversion and Cron-based transaction scheduling.
- Developed a proprietary UI system using **flutter_shaders** to achieve a premium 60fps experience.
- Implemented an "Offline-First" architecture using **Drift** with a robust **Cloud Sync** engine, ensuring zero-latency local operations and seamless multi-device data consistency.

Sqlist.NET | *Creator (Open Source)* | [GitHub](#) **2021 – Present**

- Designed a C# migration engine focused on **Data Preservation**, enabling developers to define how data evolves and transfers across schema versions.
- Introduced a "Definition History" merge capability, allowing seamless **Large-Gap Migrations** (e.g., v1.0 to v5.0) by replaying historical data transformations alongside schema changes.

Multi-Merchant Platform | *Founder & Lead Architect* **2021 – 2023**

- Architected a distributed B2B2C platform in **ASP.NET Core**, featuring strict separation of concerns across 7+ application layers (Auth, Merchant Dashboard, Admin, Storefront).
- Engineered a multilingual Full-Text Search engine (Arabic, English, Turkish) powered by **Sqlist.NET**, utilizing PostgreSQL **tsvector** and **GIN/GiST** indexing strategies for sub-millisecond query performance.
- Built a dedicated **Media Server Microservice** capable of parsing, thumbnailing, and abstracting storage providers (Azure/Local FS) for thousands of merchant documents.
- Implemented a **SignalR Communication Server** for real-time support chatting, utilizing shared UI abstraction libraries.

Professional Experience

Senior Full-Stack Developer **2019 – Present**

Creative Solutions ERP Systems (Current Employer) *Turkey*

- **Legacy to Cloud Transformation:** Led the complete migration of a Desktop ERP to a Cloud-native SaaS architecture, engineered to handle multi-tenant accounting operations.
- **Proprietary Framework Engineering:** Architected a zero-dependency SPA framework in vanilla JS (ES6+) featuring a custom regex-based templating engine and a virtualized data grid for high-volume datasets.
- **Mobile Ecosystem Architecture:** Designed and deployed the firm’s mobile strategy using **Cordova**, delivering two synchronized cross-platform applications (Free & Pro tiers) that interface directly with the core Accounting ERP.
- **Commercial Deployment of Sqlist.NET:** Integrated my open-source ORM (**Sqlist.NET**) into a production B2B Webstore (ASP.NET Core) serving the KSA market, enabling seamless synchronization with PostgreSQL.
- **Industrial IoT Dashboard (Next.js):** Built a real-time OEE analysis dashboard, visualizing hardware production metrics and correlating efficiency data with financial ledgers.
- **Infrastructure Strategy (Rust & Flutter):** Architected a self-hosted remote desktop ecosystem to replace TeamViewer, modifying the **RustDesk core** to enforce mandatory encryption and eliminating 100% of SaaS costs.

Freelance Software Engineer **2017 – Present**

Remote *Global*

- Engaged by German enterprises to deliver ****GDPR-compliant**** Laravel solutions, strictly adhering to EU privacy standards (Impressum, Cookie Laws) while optimizing high-traffic e-commerce schemas.

Education

Bachelor of Science in International Trading **Expected 2028**

Anadolu University *Turkey*

- Focus: Global Commerce, Logistics Systems, and Financial Markets.

Languages & Communication

English: Native/Bilingual Proficiency – *Technical Negotiation Capable*

Turkish: Native/Bilingual Proficiency

Arabic: Native Proficiency