

Ahmed Zuhair Salim

Full-Stack Software Engineer

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PROFESSIONAL SUMMARY

Full-Stack Software Engineer with around four years of experience building enterprise web applications, with a focus on ERP and internal business systems for the public sector. Comfortable across the full stack, from Next.js and TypeScript interfaces to ASP.NET Core and Python back-ends, PostgreSQL data modeling, and OIDC-based authentication with Keycloak. Designs systems around Clean and Vertical Slice architectures and SOLID principles to keep large codebases maintainable, and has a growing focus on application security. Delivers features end to end, from definition through Dockerized deployment.

EXPERIENCE

Full-Stack Software Engineer

Government Organization — Baghdad, Iraq

Oct 2022 – Present

- Design and build internal enterprise web applications end to end, owning both the Next.js / TypeScript front-end and the ASP.NET Core and Python (Flask) back-end.
- Structure back-end services using Vertical Slice and Clean Architecture with a CQRS-style request pipeline (MediatR / Wolverine), keeping features isolated and maintainable.
- Model relational schemas on PostgreSQL with Entity Framework Core and write efficient queries, ensuring data integrity, consistency and security.
- Integrate centralized authentication and access control via Keycloak (OIDC / OAuth2), including role-based access and a backend-for-frontend (BFF) pattern that keeps access tokens off the browser.
- Design and document REST APIs, and containerize applications with Docker (Compose, Traefik) for deployment into isolated environments over HTTPS.
- Carry out code reviews and write unit and integration tests to safeguard quality and reliability.

SELECTED PROJECTS

Diwan — Government Correspondence & Case Management System — *ASP.NET Core 10, Next.js, PostgreSQL, Keycloak*

- Enterprise document and case-management platform for official correspondence, referrals, digital signatures and multi-step approval workflows across an organization.
- Back-end built as 40+ vertical feature slices with EF Core / PostgreSQL, real-time updates via SignalR + Redis, object storage (MinIO), PDF generation, and AI-assisted semantic search (vector database).
- Next.js + TypeScript front-end with role-based navigation, bilingual Arabic/English (RTL) UI, and passwordless sign-in support (WebAuthn / passkeys).

Employee Performance-Evaluation System — *ASP.NET Core 10, Next.js, PostgreSQL*

- Digitizes staff performance reviews for a government body, modeling evaluation cycles, axes, indicators and questions with a configurable, multi-criteria form.
- Implements a multi-level evaluation flow (direct manager, general manager, specialized evaluator) with role-based access and full audit logging of every change.

Subul — E-commerce Platform — *ASP.NET Core 10, Next.js, PostgreSQL, MediatR*

- Full e-commerce system covering products, variants, attributes, categories, collections, carts and orders, with a separate storefront and admin panel.
- Vertical Slice back-end with MediatR and FluentValidation, JWT authentication, and integration tests running against real PostgreSQL via Testcontainers.

Warehouse Management System — *ASP.NET Core 10, Next.js, PostgreSQL, Docker, Keycloak*

- Inventory platform managing stores, items, suppliers and the full goods lifecycle (receiving, issuing and stock tracking) as a Next.js + ASP.NET Core monorepo.
- Containerized with Docker Compose and a Traefik TLS reverse proxy for air-gapped deployment; secured with Keycloak OIDC via an Auth.js BFF, and hardened through a self-directed security audit documenting and fixing findings.

TECHNICAL SKILLS

Languages: C#, Python, TypeScript, JavaScript, SQL

Back-end: ASP.NET Core, Flask, REST APIs, MediatR / Wolverine, FluentValidation, SignalR

Front-end: React, Next.js, Tailwind CSS, shadcn/ui, TanStack Query, Zustand, React Hook Form, Zod

Databases: PostgreSQL, SQL Server, MySQL, Entity Framework Core, Prisma

Auth & Security: Keycloak, OIDC / OAuth2, JWT, RBAC, secure coding, OWASP Top 10

Architecture: Vertical Slice Architecture, Clean Architecture, CQRS, SOLID Principles

DevOps & Tools: Docker & Docker Compose, Traefik, Git, Linux, Bash, Redis, Code Review, Unit & Integration Testing

AREAS OF INTEREST

Application Security & Cybersecurity — actively developing skills in secure coding, the OWASP Top 10, and security testing (SAST/DAST), including hands-on security reviews of my own applications to identify, document and remediate vulnerabilities.

EDUCATION

Bachelor of Computer Engineering

Madenat Alelem University College — Baghdad, Iraq 2016 – 2019

Relevant coursework: Data Structures, Algorithms, Web Development, Database Management Systems.

CERTIFICATIONS

- Build ASP.NET Core Web API — Scratch to Finish (.NET 8) — Udemy
- Learn React — Codecademy
- Learn React Router v6 — Codecademy

LANGUAGES

Arabic — Native **English** — Professional working proficiency