

Ahmad Kheir

SOFTWARE ENGINEER | .NET DEVELOPER

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Profile Summary

Software Engineer with 4+ years of experience in ASP.NET Core, SQL Server, MongoDB, Redis, and desktop applications. Strong background in building enterprise APIs, POS systems, ERP platforms, and backend services. Experienced in Linux deployments, systemd, caching, and scalable system design.

Projects

Telepaty Holding Tripoli, Lebanon

VIS – VIVA Intelligence Speech 2024-Present

Technologies: ASP.NET Core, MariaDB, Linux, systemd, WebSockets

- Developed backend APIs for an AI-powered avatar video generation system.
- Implemented workflows to convert speech input into animated avatar-based videos.
- Configured and maintained production services using systemdctl for stability and uptime.
- Integrated database management using MariaDB for user sessions and processing records.

VTC – VIVA Terminal Connection 2025 – Present

Technologies: ASP.NET Core 8, TCP/IP, WebSockets, SQL Server, Redis, Linux

- Developed secure backend services for terminal device communication and transaction processing.
- Implemented real-time TCP/WebSocket connections for POS terminal integration.
- Designed transaction validation and routing workflows between terminals and backend systems.
- Built secure authentication mechanisms for terminal identification and session control.
- Optimized high-volume transaction handling with Redis caching.
- Implemented logging and monitoring for terminal activity and error tracking
- Deployed and managed services on Linux servers using systemd.

VNC – VIVA Notification Center 2023 – 2024

Technologies: ASP.NET Core 8, SQL Server, MongoDB, Redis, Hangfire, Linux

- Designed and developed a multi-channel notification platform supporting Email, SMS, WhatsApp, VIVA, Android (FCM), and iOS (APNs) push notifications.
- Built scalable RESTful APIs for notification creation, delivery, and tracking.
- Implemented JWT-based authentication and role-based authorization.
- Integrated third-party messaging gateways and push notification services.
- Used Redis for caching, rate limiting, and session management.
- Implemented Hangfire for reliable background job processing and retry mechanisms.
- Designed advanced filtering and date-range queries across MongoDB and Redis for analytics and reporting.
- Implemented delivery status tracking, logging, and failure handling mechanisms.
- Deployed and maintained services on Linux servers using systemctl.

VIVA Desktop POS System 2022 – 2023

Technologies: WPF, SQL Server

- Developed a full POS solution for restaurants and retail.
- Features included: Order and invoice management.
- Delivery scheduling and driver clearance.

- Cash, tips, and shift management and Table reservations.
- Ensured high performance and reliability in live environments.

VMS – VIVA Management System (Desktop ERP)

2022 – Present

Technologies: Windows Forms, DevExpress, SQL Server and DataSet

- Designed and developed a desktop ERP system managing company partners including gas stations, merchants, and product resellers.
- Implemented module such as: E-voucher services, Petrol station operations, E-government integrations, E-commerce data management.
- Built secure role-based access interfaces with fine-grained permissions.
- Optimized SQL Server queries and stored procedures for performance and scalability.

Personal Projects

University Smart Portal (Academic Management System)

2025

Technologies: ASP.NET Core API, SQL Server

- Developed a full academic management system handling course registration, assignments, and grade management.
- Implemented secure role-based access control for Students, Instructors, Advisors, and Admins.
- Designed and optimized relational database architecture to enforce academic workflows and rules.

Real Estate Management System

2021

Technologies: PHP, MySQL, HTML, JavaScript

- Built a property listing and management platform with dynamic search and filtering features.
- Implemented secure user authentication and role-based access control.
- Designed and maintained the MySQL database structure for efficient property and user management.

Education

Master 1 of Science in Computer Science (MCSCI)

2021 – 2022

Lebanese International University | Tripoli, Lebanon

Bachelor of Science in Computer Science (CSCI)

2018 - 2021

Lebanese International University | Tripoli, Lebanon

Senior Project (Everest): Create a website for Real estate (can the user sign up, login, logout, and add real estates(house, land, store)) PHP, html, JavaScript, (XAMP database).

Skills & abilities

- **Backend & Databases:** SQL Server, MongoDB, Redis, Firebase, MySQL, SQLite, REST APIs, GraphQL, ASP.NET Core, ASP.NET
- **Desktop App Development:** Windows Form, WPF, DevExpress
- **Security & Authentication:** JWT, SHA-256
- **Networking & Protocols:** HTTPS, TCP/IP, WebSockets
- **Software Compliance:** Government & Financial Regulations
- **Web Development:** HTML5, CSS3, JavaScript, PHP, jQuery, Bootstrap
- **Mobile Development:** Flutter, Dart
- **Other Technologies:** Python, C, C++, Arduino, Bash, Linux

Professional Development & Achievements

- **Certifications:** Introduction to Networks, Cisco (2018) and Routing and Switching, Cisco (2018).
- **Self-Directed Projects:** Regularly develop personal backend, database and flutter applications to explore emerging technologies, implement modern architectural patterns, and refine best practices.

Languages

Arabic (Native) | **English** (Intermediate) | **French** (Basic)