

MOHAMAD KASSAB

SENIOR SOFTWARE ENGINEER



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Summary

Senior software engineer with experience building enterprise and real-time systems across .NET, Next.js, databases, cloud, DevOps, and legacy-system modernization. B.S. in Computer Science with Honors and an AI & Data Science Diploma from AUB. Interested in advanced software systems, artificial intelligence, and graduate-level research.

Experience

Senior Software Engineer

QUICKSOLUTIONSLEB | Aug 2026–Present

(C#/.NET, Next.js, TypeScript, Oracle, PL/SQL, EF Core, Microservices, Docker, CI/CD, Automated Testing, Oracle Forms)

- Design and build enterprise applications using C#/.NET, Next.js, Oracle Database, Entity Framework Core, Microsoft Identity, and microservices.
- Design Oracle Forms modernization architectures, distributing legacy functionality across PL/SQL, .NET APIs, and Next.js.
- Develop Oracle SQL/PL/SQL, data-migration scripts, and backend integrations for modernized systems.
- Contribute to solution architecture, including service boundaries, APIs, authentication, database access, and deployment design.
- Implement Microsoft Identity, EF Core, secure authorization, and database-performance improvements.
- Build and test modern web applications using Next.js/React/TypeScript, including unit, integration, API, regression, and migration testing.
- Use Docker, CI/CD, microservices, and REST APIs for deployment and system integration.
- Lead legacy-system modernization, data migration, and reverse engineering, validating behavior and preserving critical business rules. Review code, support technical decisions, work with clients, and troubleshoot production/deployment issues.
- Use Claude and ChatGPT for code analysis, debugging, test generation, documentation, and migration acceleration.

Software Engineer

INTALIO | Jun 2025–Aug 2026

(C#, .NET Core, JavaScript, EF Core, SQL, PostgreSQL, Hangfire, Docker, IIS, Tomcat, Data Migration, Testing)

- Extended the company's base products with new features and functionality using C#/.NET Core, working with DbContext, middleware, custom authentication, and authorization policies.
- Analyzed client databases and planned data migrations to move existing data onto company products.
- Built multi-step features across multiple APIs, coordinating logic that spans several products and services.
- Used Hangfire background jobs for scheduled, recurring, and long-running tasks.
- Applied asynchronous programming to improve performance and support concurrent users.
- Wrote JavaScript for new layouts, client-side validation that mirrors server-side rules, event listeners.
- Investigated compiled DLLs to understand internal product behavior and determine how to safely extend and migrate base products.
- Debugged URLs, requests, responses, and end-to-end application flows to understand the system behavior.
- Handled deployments across Apache Tomcat, IIS, and Docker on both Windows and Linux.
- Gathered requirements directly from clients and translated them into technical implementation plans.
- Delivered training sessions for end users and IT teams to support deployment and adoption.
- Worked on projects for government ministries and private-sector telecommunications companies.
- Used Claude and ChatGPT to accelerate development, debugging, analysis, and solution delivery while maintaining technical quality and correctness.

Software developer

ARROW TRADE Mar2024-Feb2025

(ReactJs, NextJs, C++, MT5)

- Developed dynamic, real-time web applications using React, Next.js and Typescript, with Redux for efficient state management across complex application flows.
- Built modern, responsive UI components using Tailwind CSS and Material UI (MUI).
- Created backend services in Python to retrieve data from Redis databases and transmit them via WebSocket to the frontend, enabling real-time data updates.
- Integrated WebSocket technology to handle live data streams and ensure seamless communication.
- Established CI/CD pipelines using GitHub Actions to automate build, test, and deployment processes.
- Built and optimized C++ DLLs to integrate plugins with the MT5 server.

Software developer
ADMIC Feb2023-Mar2024

- (.Net Core, Python, JS, SQL)
- Developed robust backend solutions using .NET Core, Entity Framework, and SQL Server—designing databases, writing optimized stored procedures, and managing data interactions.
 - Built and maintained web applications using .NET Core with Razor Pages and MVC architecture, ensuring clean separation of concerns and maintainable codebases.
 - Worked extensively in SQL Server Management Studio (SSMS) for database reporting, query optimization, and overall data management.
 - Implemented secure authentication and authorization mechanisms using JWT tokens and role-based access control across multiple applications.
 - Refactored and optimized existing C# .NET projects to improve performance and scalability.
 - Automated critical file transfer workflows using Python, including synchronization between local and remote servers via HTTP, WebDAV, and SFTP protocols.

Software Development Intern
Integrated Digital Systems | Mar 2022 – Jun 2022

- (.NET Core, SQL)
- Completed an intensive .NET/C# internship and delivered a full web application project using ASP.NET Core and SQL.

Education

- AI & Data Science Diploma | 2026**
AUB Artificial Intelligence & Data Science
- B.S. Computer Science (Honors) | 2023**
AUST Cumulative GPA: 3.27/4.00 | Ashrafiyeh Campus
- BT3, Information Technology | 2018–2019**
CIS Ranked 3rd in Lebanon in the official 2019 technical baccalaureate examinations.

Skills

- Programming: C#, Python, TypeScript, JavaScript, SQL, C++
- Backend & Architecture: ASP.NET Core, Microservices, Entity Framework Core, Microsoft Identity, MassTransit, Hangfire, REST APIs, WebSockets
- Frontend: React, Next.js, Redux, Zustand, Tailwind CSS, MUI, Framer Motion, UI/UX
- AI & LLM Engineering: TensorFlow, CNN, LSTM, RAG, AI Agents, Prompt Engineering, Claude, LLM-assisted development
- Databases & Migration: Oracle Database, SQL Server, PostgreSQL, MySQL, Redis, Oracle Forms modernization, Data Migration
- Cloud & DevOps: AWS, LocalStack, Docker, Git, GitHub Actions, CI/CD, Linux, Nginx, IIS, Apache Tomcat
- Architecture: Solution Architecture, Software Architecture, Enterprise Integrations, Security, JWT, OAuth

Languages

- | | | |
|-----------|--------|------------------------------------|
| • English | Fluent | Duolingo English Test — 125 |
| • French | Fluent | |
| • Arabic | Native | |