

# Nawar El Zein

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## EXPERIENCE

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### Backend Track Apprenticeship

February – March 2026

Inmind Academy | Beirut - Hybrid

- Designed scalable backend services in ASP.NET Core applying Domain-Driven Design, and testing using xUnit.
- Implemented authentication and authorization with Keycloak including RBAC and ABAC access control.
- Applied DevOps practices such as structured logging, caching, observability, and container-ready service design.
- Integrated APIs with Angular applications, gaining exposure to full-stack workflows.

### Full-Stack Software Developer Intern

August – September 2025

IDS Fintech | Beirut - Remote

- Architected and delivered full-stack solutions using ASP.NET Core and React Typescript.
- Implemented enterprise features including JWT, real-time SignalR notifications, and Hangfire background processing.
- Designed SQL schemas with proper indexing and performance considerations.
- Configured centralized logging with Serilog and Seq; set up health check endpoints and Swagger documentation.

## TECHNICAL PROJECTS

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### Exchain - Money Transfer Platform – Lead Developer & Scrum Lead | [GitHub](#)

Technologies: Laravel, React, MySQL, JWT, RBAC, Leaflet, PusherJS, Reverb, GitHub, Azure DevOps

- Led sprint planning, repository structure, and all Git branching/merging workflows as Scrum Lead.
- Designed DB schema and implemented core flows: agent onboarding → admin approval → user interactions.
- Implemented cash-in/cash-out workflows between agents and users with full audit trail and status transitions.
- Integrated Leaflet maps for live agent locations with routing and auto-detected coordinates.
- Built real-time notifications (Reverb + PusherJS) with persistence, read/unread states, and cross-role updates.

### Babel - E-Library Management System | [GitHub](#)

Technologies: .NET Core, React TypeScript, Entity Framework, SQL Server, Redis, SignalR, Hangfire, MailKit, QuestPdf

- Built a production-ready e-library platform with complex borrowing workflows, admin automation, and business rules.
- Implemented real-time notifications, background job processing, email automation, and weekly PDF reporting.
- Layered architecture with structured logging (Serilog + Seq) and Redis caching.
- Containerized entire stack with Docker Compose for scalable deployment.

## EDUCATION

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### Bachelor of Science in Computer and Communication Engineering

September 2022 – *Expected June 2027*

Antonine University, Lebanon | **GPA: 89.898**

## TECHNICAL SKILLS

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**Programming Languages:** C#, JavaScript, TypeScript, Java, C++, Python, SQL, PHP

**Backend Technologies:** ASP.NET Core, Laravel, Node.js, Express.js, REST APIs, JWT Authentication, Reverb, SignalR, Logging (Serilog + Seq), Hangfire, Keycloak, Swagger, xUnit

**Frontend Technologies:** React.js, Angular.js, TypeScript, Material UI, HTML5, CSS3

**Databases & Caching:** SQL Server, PostgreSQL, MySQL, MongoDB, Redis

**DevOps, Infra & Security:** Docker, Git, Postman, MailKit, QuestPDF, Health Checks, Wireshark, Suricata, TLS/HTTPS Analysis, Nmap, Scapy, Pusher/Reverb (Realtime), Azure DevOps, Bycrypt.js

**Architecture & Patterns:** Domain-Driven Design, Layered Architecture, MVC, OOP, Background Processing, Database Design

## LANGUAGES

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Arabic (native) | English (professional)