

Nawar El Zein

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EXPERIENCE

Full-Stack Software Developer Intern

August – September 2025

IDS Fintech | Beirut - Remote

- Architected and delivered full-stack solutions using .NET 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

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.
- Built full authentication system: JWT-based login, role-based access control (Admin/User/Agent), and Google OAuth.
- 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.

Network Traffic Analysis & Decryption Project – Security & Protocol Analysis

- Captured encrypted HTTPS (TLS) sessions, extracting handshake data and decrypting using SSLKEYLOGFILE.
- Simulated real attack scenarios: Nmap scans, SSH brute-force, malformed packets via Scapy, and MITM interception.
- Inspected PCAPs to identify attack signatures, anomalies, and protocol deviations.
- Configured Suricata rules for live monitoring, generating alerts for detected attack patterns.

EDUCATION

Bachelor of Science in Computer and Communication Engineering

September 2022 – **Expected June 2027**

Antonine University, Lebanon | **GPA: 89.865**

TECHNICAL SKILLS

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, Swagger

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

Databases & Caching: SQL Server, 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, Bcrypt.js

Architecture & Patterns: Layered Architecture, Repository Pattern, MVC, OOP, Background Processing, Database Design

LANGUAGES

Arabic (native) | English (professional)