

NOUR ABIAD

Senior Software Engineer | High-Performance Systems & Web3 Backend Architect

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PROFESSIONAL SUMMARY

Accomplished Senior Software Engineer with over 6 years of hands-on expertise in designing, architecting, and optimizing high-performance backend systems, distributed data engines, and cloud infrastructures. Dual Bachelor's degree holder in Computer Science (MEU) and Electrical & Electronics Engineering (AUB), with an additional Law degree (Lebanese University) providing a strong foundation for financial regulations, protocol security, and algorithmic precision. Highly skilled in Node.js, TypeScript, C++, Rust, and Solidity, with deep expertise in Redis caching, MongoDB/PostgreSQL database optimization, Web3/smart contract integration, and Docker containerization on AWS. Proven track record of accelerating processing speeds by 30%, building scalable APIs, and driving Agile project cycles for complex fintech, data streaming, and software solutions. Seeking to leverage engineering expertise as a Senior Software Engineer (Remote).

CORE COMPETENCIES

- Scalable Backend Systems Architecture & APIs
- High-Speed Trading Algorithms & Execution Engines
- Web3 Integration, Solidity & Smart Contracts
- Redis In-Memory Caching & Distributed Data
- MongoDB & PostgreSQL Database Optimization
- Docker Containerization, AWS & Microservices

TECHNICAL SKILLS MATRIX

Languages & Frameworks: Node.js, TypeScript, JavaScript (ES6+), Rust, C++, Python, Solidity, Web3.js / Ethers.js, Express, REST/GraphQL APIs.

Databases & In-Memory Caching: MongoDB, Redis (Caching/Pub-Sub), PostgreSQL, SQL/POS, Data Structures & Algorithmic Optimization.

DevOps, Blockchain & Infrastructure: Docker, AWS (EC2, S3, ECS), Git/GitHub CI/CD, Smart Contract Deployment, Consensus Protocols, Security & Encryption.

PROFESSIONAL ENGINEERING EXPERIENCE

Program Technical Lead & Senior Software Engineer | Skip The Line — Metn, Lebanon

July 2022 – December 2024

- **High-Performance System Architecture:** Architected and delivered scalable, high-throughput microservice backend systems using Node.js, TypeScript, and Docker containerization, reducing delivery timelines by 30%.
- **Data Storage & Caching Layer:** Implemented Redis caching and MongoDB/PostgreSQL schemas to handle ultra-fast data retrieval, sub-millisecond query responses, and real-time state management.
- **Cross-Functional Agile Leadership:** Directed engineering teams across full project cycles, conducting code reviews, implementing strict API security standards, and cutting defect rates by 15%.
- **Cloud Infrastructure Deployment:** Deployed microservices and containerized applications onto AWS cloud infrastructure, integrating automated CI/CD pipelines for zero-downtime releases.

System Administrator & Program Technical Specialist | Creative Technology Solutions — Beirut, Lebanon

December 2024 – Present

- **Distributed Cloud Governance:** Manage enterprise cloud infrastructures (M365 Cloud, Entra ID, server networks) across distributed multi-site nodes, maintaining 99.9% operational reliability and data integrity.
- **Backend Automation & Scripting:** Engineered automated workflow scripts using Python and PowerShell, streamlining system provisioning, security monitoring, and API diagnostic tasks.

Senior Systems Engineer & High-Speed Data Architect | Food.Com — Lebanon (Remote / Hybrid)

January 2021 – December 2024

- **Trading & Real-Time Processing Engine:** Architected C++ and Node.js real-time data processing engines for fast-throughput transactions, achieving a 30% increase in execution speed.
- **API & External Protocol Integration:** Integrated third-party APIs, WebSockets, and asynchronous data pipelines, ensuring low-latency data streaming and robust fault tolerance.

Database & Systems Architect (Consulting Roles) | Letablier D'Elie / BEDIVER / SALMAN Electric — Lebanon

2012 – Present

- **Relational & NoSQL Database Optimization:** Managed relational and NoSQL database administration (MongoDB, PostgreSQL), indexing, and query tuning, reducing system downtime by 20%.
- **Web3 & Smart Contract Prototyping:** Researched and built Web3 prototype modules utilizing Solidity smart contracts, Rust logic, and Ethers.js for decentralized state verification and automated execution.

Emergency Operations & Systems Dispatch Lead | Lebanese Red Cross — Aley, Lebanon

February 2016 – Present

- **Mission-Critical Uptime Command:** Lead operational response teams and technical communication server infrastructure, guaranteeing 99.9% uptime for high-priority emergency dispatch systems.

EDUCATION

- **Bachelor of Science in Computer Science** | Middle East University (MEU) (2017 – 2022)
- **Bachelor of Science in Electrical and Electronics Engineering** | American University of Beirut (AUB) (2017 – 2021)
- **Bachelor of Science in Law** | Lebanese University (2014 – 2017)

LANGUAGES & CERTIFICATIONS

Languages: English (Fluent / Professional) | Arabic (Native) | French (Professional Working)

Certifications: IT Service Management (ITSM) | M365 Enterprise Systems Administration | First Aid Operations Leader