

Adham Batlouni

Software Developer

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SUMMARY

Full-Stack Engineer specializing in **Next.js, React, and Supabase** — focused on building production-grade platforms that solve real-world infrastructure gaps and digitize complex workflows. Experienced in end-to-end development from database architecture and backend automation to performant, multilingual user interfaces.

EXPERIENCE

Frontend Developer | **Blockify Technologies** (Hybrid) May 2024 – Present

- Developed responsive web applications using **React, TypeScript, and Next.js**, managing application state with **Redux Toolkit** and optimizing performance through code splitting and lazy loading.
- Led migration of legacy UI components to **NextUI**, standardizing reusable elements and enhancing design consistency across platforms.
- Collaborated with backend teams to integrate **RESTful APIs**, ensuring seamless data flow and end-to-end functionality for enterprise-scale features.
- Improved code quality through rigorous code reviews, **Jest** unit testing, and maintaining high test coverage across critical modules.
- Optimized build processes using **Webpack** and incremental static regeneration (**ISR**) to streamline development workflows.
- Delivered sprint-aligned features in **Agile** environments, participating in daily standups, sprint planning, and stakeholder demos.

Full-Stack Developer | **ETE-Services** (Remote) Feb 2024 – May 2024

- Built full-stack features including user authentication, dashboard analytics, and real-time data updates using **React, Node.js, and MongoDB**.
- Designed and optimized **RESTful APIs** with **Express.js**, improving data retrieval efficiency and ensuring high availability for concurrent users.
- Integrated **Redux** for centralized state management, minimizing unnecessary re-renders and enhancing frontend responsiveness.
- Automated CI/CD pipelines using **GitHub Actions**, reducing deployment errors and accelerating release cycles.
- Collaborated with QA teams to troubleshoot and resolve critical bugs, ensuring stable production deployments.

SKILLS

- **Programming Languages:** TypeScript, JavaScript, Python (backend), Java.
- **Frontend:** React, Next.js, Tailwind CSS, Flutter
- **Backend:** Node.js, Express.js, Spring Boot, Socket.IO
- **Databases:** Supabase (PostgreSQL), MySQL, MongoDB.
- **Tools & DevOps:** Git/Github, Docker, Postman, Jira
- **Spoken Languages:** Arabic (Native), English (Fluent), French (Beginner).

PERSONAL PROJECTS

Mawed (موعد) – Real-Time Power Outage Intelligence Platform for Lebanon

- Built for Lebanon's daily reality of **12+ hours of power cuts** — a production-grade platform using **Next.js, TypeScript, and Supabase** that gives residents real-time outage schedules, live grid status, and 7-day forecasts across **37 neighborhoods and 5 regions**.
- Independently researched, modeled, and maintained all outage data from scratch with no official data source available, designing a normalized PostgreSQL database with **777+ schedule rows** and a role-scoped admin panel for real-time schedule management.
- Engineered a conflict-resolution algorithm handling cancelled, modified, and added outage windows shared across the frontend forecast grid and backend alert engine to guarantee perfect consistency between what users see and what alerts they receive.
- Architected a production alert engine using **Supabase Edge Functions and pg_cron**, firing per-minute checks with a custom deduplication strategy ensuring exactly-once email delivery via **Resend API**.
- Integrated **Pigeon Maps** for an interactive neighborhood map with live outage overlays and implemented a full auth system covering email confirmation, onboarding, password recovery, and server-side protected routing.
- **Technologies:** Next.js, React, TypeScript, Supabase, PostgreSQL, Edge Functions, pg_cron, Resend, Pigeon Maps.

Daleeli – Professional Syndicate Registration & Labor Rights Platform

- Addressing Lebanon's fragmented, paper-heavy syndicate system — building a full-stack platform using **Next.js, TypeScript, and Supabase** that centralizes registration guidance, document checklists, and eligibility conditions into a single step-by-step experience.
- Engineered a real-time multilingual news pipeline supporting Arabic, English, and French with automatic translation and parallel batch processing.
- Implemented a role-based access system across four user tiers with a full admin dashboard and a premium contract upload service for foreign work contract analysis.
- Collaborated in an agile team of 5 at **TechTalks** using Jira and Git/GitHub.
- **Technologies:** Next.js, React, TypeScript, Supabase, Jira.

Geo-Based Pricing POC

- Developed an interactive pricing management platform using **React, TypeScript, Leaflet.js, and Turf.js**.
- Enabled dynamic pricing zone creation/editing with **GeoJSON** boundary detection for automated region mapping.
- Optimized performance via **React memoization** and lazy loading, reducing UI latency by 30%.
- Designed real-time form calculations for pricing adjustments based on geospatial data.
- **Technologies:** React, TypeScript, Leaflet.js, Turf.js.

Kanban Board

- Engineered a task management system with drag-and-drop functionality using **dnd-kit** and **Next.js**.
- Built a scalable backend with **Express.js** and **MongoDB** to support CRUD operations and real-time updates.
- Integrated RESTful APIs for seamless synchronization between frontend and database.
- **Technologies:** Next.js, Express.js, MongoDB, dnd-kit, API Integration.

Restaurant Management System

- Developed a production-grade platform with **MongoDB** for real-time order/reservation tracking.
- Designed analytics dashboards for menu performance and customer behavior insights.
- Integrated **Express.js** for API routing and **JavaScript** for interactive UI components.
- **Technologies: JavaScript, MongoDB, Node.js, Express.js.**

COURSES

- **Full-Stack Engineer Career Path (Codecademy):** Developed scalable, full-stack web applications from front-end to back-end using React, Node.js, and PostgreSQL.
- **Spring Boot:** Mastering the Fundamentals.
- **Django:** From Basics to Advanced.
- **Python:** Complete Python Mastery.
- **Java:** Fundamentals, OOP, and Advanced Topics.
- **Git & Version Control:** The Ultimate Git Course.
- **Data Structure & Algorithms.**