

Mirna Derbieh

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Summary

Junior front-end developer and Computer Science student with hands-on experience building responsive, accessible web applications using React, Next.js, TypeScript, Tailwind CSS, and RESTful APIs. Strong backend and database foundations with PHP, Java, MySQL, PostgreSQL, and Prisma, focusing on data integrity, security, and performance. Experienced in collaborative Git workflows, Agile ceremonies, remote teamwork, and maintaining code quality through CI, linting, and automated reviews.

Education

Lebanese University – Hadath, Beirut
Bachelor's in Computer Science

Sep 2023 - Jul 2026

Experience

BrightChamps

Singapore (Remote)

Coding Instructor

Jul 2024 – Feb 2025

- Delivered coding instruction to 20+ students per cohort, adapting content to varying skill levels with differentiated resources, real-world examples, and step-by-step explanations.
- Created a psychologically safe learning environment where students felt comfortable asking questions and making mistakes, normalizing struggle and celebrating progress to build confidence and trust.
- Adjusted teaching approach on the fly based on individual needs by breaking complex concepts into smaller steps, switching to hands-on exercises, and trying different explanations to match learning styles.
- Provided honest, constructive feedback and mentorship, taking responsibility for mistakes and modeling integrity and accountability.

Oreyeon

Portugal (Remote)

Data Handler (Freelance)

Jun 2024 – Feb 2025

- Processed and labelled 100,000+ aviation-related images for machine learning datasets supporting runway safety systems.
- Performed data validation and quality checks across 100,000+ records, reducing labeling inconsistencies and improving dataset reliability for downstream models.
- Incorporated reviewer feedback to correct mislabeled data, maintaining high annotation accuracy and ensuring compliance with project quality standards.
- Collaborated with distributed teams across multiple review cycles to maintain dataset consistency, follow internal workflows, and meet 100% of assigned project deadlines.
- Worked with large-scale structured datasets and validation workflows, strengthening expertise in data integrity, quality assurance, and backend data handling processes.

Skills

Frontend :Next.js, React, TypeScript, JavaScript, Tailwind CSS, Radix UI, SWR, HTML, CSS

Backend :NestJS, RESTful APIs, Zod, BullMQ, Argon2, Authentication & Session Management, ASP.NET Core, PHP

Data & Infra :PostgreSQL, Prisma, Redis, MySQL, SQL (Stored Procedures, Triggers, Indexing, Transactions/ACID), SQLite

Tooling & Workflow :Docker, GitHub Actions, Turborepo, ESLint, Prettier, Jest, Git, npm, Prisma CLI, TypeScript (tsc)

Languages :Arabic (native), English (fluent), French (Basic)

Also Familiar With :Java, C, Python

Projects

Full-Stack Project – Digital Wallet Management System

Feb 2026

- Built a full-stack digital wallet system supporting user registration, authentication, deposits, transfers, and withdrawals, using Git and GitHub with classmates for collaborative development, branching, pull requests, and code reviews.
- Designed a normalized MySQL database with 7 tables, 17+ stored procedures, SQL functions, 3 triggers, 11 indexes, and 4 views, improving query performance on critical user and transaction lookups and enforcing business rules at the database layer.
- Implemented transaction-safe operations with explicit commit/rollback and row-level locking, achieving 100% ACID compliance and reducing the risk of partial fund corruption to 0% during concurrent balance updates.
- Designed and implemented backend API endpoints using JSON (json_decode / json_encode) for client-server communication, improving robustness of request/response handling and reducing malformed input.
- Secured authentication using bcrypt password hashing, session ID regeneration, and role-based access control, enforcing least-privilege RBAC and strengthening protection against unauthorized access across all system roles.
- Implemented robust error handling with try-catch blocks, prepared statements, and input validation (including email format and negative amount checks), reducing query failures and preventing SQL injection.
- Diagnosed and fixed a transaction sync bug by adding logging, isolating a faulty endpoint, and correcting data handling logic, improving reliability of transaction processing.

- Profiled and optimized slow database queries by adding indexes and refining joins, achieving 60-80% faster lookup performance on critical database operations and improving overall user experience.
- Collaborated with classmates on requirements discussions, database design (procedures, triggers, functions), backend logic, and frontend for 2 pages, exchanging feedback and recognizing team contributions.

Mobile Application Project – Comprehensive Travel Companion App

Feb 2026

- Developed a feature-rich Android travel companion application with 3 integrated travel-management modules, 8 Activities, and 4 Fragments, supporting trip planning, packing management, and image-based travel journaling.
- Integrated SQLite database for persistent data storage and efficient retrieval across multiple entities.
- Engineered a scalable Android application architecture comprising 30 Java classes and 17 UI layouts, leveraging RecyclerView, Navigation Drawer, and lifecycle-aware components.
- Integrated Google Maps API, enhancing trip planning functionality and improving usability.

Web Application Project – Akleh 3al Lebneneh

Jan 2025

- Built a responsive web application showcasing Lebanese cuisine with structured navigation and dynamic UI components.
- Implemented interactive features using JavaScript, improving usability and user engagement.

Full-Stack Medicine Access Platform – MedFind Lebanon

Jul 2026

- Collaborated on MedFind Lebanon, a full-stack medicine access platform where clients search pharmacy stock and message pharmacies directly, while pharmacy staff manage branches, inventory, and inquiries through role-based dashboards.
- Designed and built a platform-wide audit logging system in NestJS, capturing before/after diffs across users, medicines, pharmacies, branches, and branch assignments, plus auth session events, later extending it to a pharmacy-scoped console and refactoring both into one shared React component.
- Contributed the authentication and onboarding flow in Next.js, including a staff invite-to-active lifecycle and redirect-sanitization logic that closed an open-redirect vulnerability, blocking protocol-relative and backslash-based attack targets.
- Built tenant-scoped CRUD features for pharmacy branch management and dashboards using Prisma and PostgreSQL, enforcing authorization server-side with role guards and pharmacy-scoped queries, including a staff-count safety check blocking unsafe branch deletions.
- Developed the client-facing pharmacy directory and inquiry system in React across three iterative releases, adding geolocation-based distance sorting, live stock lookups per branch, and a transactional inquiry/chat flow with ownership checks on every message.
- Implemented accessibility features including semantic HTML structure (header, main, footer), keyboard-operable interactive rows using Enter/Space with tab focus, ARIA labels and states for forms and icons, and screen-reader-only text for dialog controls.
- Used Chrome DevTools Network tab to diagnose failed API requests to port 3001 and resolve the issue by adjusting the development environment to run the project directly in Linux, restoring API connectivity.
- Used Chrome DevTools Console to identify and fix a React hydration error caused by invalid HTML nesting, resolving rendering issues in the Next.js frontend.
- Shipped role-specific notification systems using SWR-powered polling, and supported CI quality gates using GitHub Actions, ESLint, Prettier, and automated testing across contributions.
- Managed global data and auth state with SWR and a shared SWRConfig, clearing caches on login/logout to keep session state consistent; handled form state with React Hook Form and Zod, and local UI state with React Context for sidebar open/collapsed state persisted in cookies.
- Participated in Agile ceremonies including stand-ups every Monday and Thursday to share progress and blockers, sprint planning to organize upcoming work, and sprint reviews/demos to present completed features within a cross-functional team working across UI/UX, backend, and database.
- Performed ongoing maintenance by fixing bugs in existing features, resolving team-reported issues during testing, and regularly updating npm packages, libraries, and frameworks after code changes while maintaining code quality through CodeRabbit reviews and addressing nitpicks.
- Worked in a Turborepo monorepo using npm workspaces, with build, dev, lint, and type-check tasks orchestrated via turbo run and configured with explicit task inputs/outputs and environment variables.
- Used Next.js 16 built-in tooling (next dev, next build, next start) with custom remote image allowlisting, NestJS build tooling (nest build, nest start), Prisma CLI for schema and migrations, and the TypeScript compiler for database package builds.
- Used Figma for prototyping MedFind UI ideas, requested a designer-created logo, and incorporated designer feedback on a hero animation implemented with a library.
- Tech stack: Next.js, React, TypeScript, Tailwind CSS, Radix UI, SWR, Zod, NestJS, PostgreSQL, Prisma, Redis, BullMQ, Docker, Turborepo, GitHub Actions