

# Marwan Bou Diab

ul. Łużycka 32, 44-100 Gliwice, Poland

[marwan.boudiab@outlook.com](mailto:marwan.boudiab@outlook.com) | Github: [marwan-boudiab](https://github.com/marwan-boudiab) | Website: [marwan-boudiab.com](https://marwan-boudiab.com) | LinkedIn: [linkedin.com/in/marwan-boudiab/](https://linkedin.com/in/marwan-boudiab/)

## WORK EXPERIENCE

### AM Bank

Hamra, Beirut

Software Developer Intern (Onsite) | C# · ASP.NET Web Forms · ASP.NET Core · JavaScript · HTML · CSS

June 2023 - Aug 2023

- Architected and delivered an enterprise-grade intranet application using ASP.NET Web Forms with C#, JavaScript, and MySQL, improving internal workflow efficiency
- Implemented secure authentication infrastructure with C# REST APIs, featuring JWT token generation, SHA-256 password hashing, and role-based authorization protocols.
- Successfully migrated legacy codebase from .NET Framework to ASP.NET Core, enhancing application performance and enabling cross-platform deployment capabilities.
- Designed normalized database schema and stored procedures for a content management system, enabling non-technical staff to independently manage website content.

### Freelance Full Stack Web Developer

Remote

Next.js · TypeScript · Supabase · DrizzleORM · TailwindCSS · UploadThing

May 2024 - Feb 2025

- Architected high-performance SPAs and progressive web applications using Next.js with TypeScript and TailwindCSS, delivering responsive and WCAG-compliant user interfaces.
- Engineered scalable database solutions using DrizzleORM with Supabase PostgreSQL, implementing type-safe data models and efficient schema migrations.
- Developed RESTful API endpoints and server-side rendering solutions, reducing page load times and improving SEO metrics.
- Implemented secure authentication systems with JWT, NextAuth.js and OAuth 2.0, featuring role-based access control and social login integration.
- Created intuitive admin dashboards with custom components using Radix UI primitives and reusable component architecture.
- Implemented diverse media storage solutions including Supabase, Cloudinary, and UploadThing, optimizing asset delivery and performance.
- Established CI/CD pipelines for automated testing and deployment to Vercel, ensuring consistent code quality and seamless production releases.

## SKILLS

- Programming Language:** JavaScript, TypeScript, Python, C#, HTML5, CSS3.
- Frontend Development:** React, Next.js, Zustand, Tailwind CSS, Responsive Design, Cross-browser Compatibility, Three.js.
- Backend Development:** Node.js, Express.js, RESTful API Design, ASP.NET Core MVC, .NET Framework, API Gateway, Microservices Architecture.
- Databases:** PostgreSQL, MongoDB, MySQL, Supabase, DrizzleORM, NoSQL Data Modeling, Database Schema Design.
- Authentication & Security:** JWT, NextAuth.js, OAuth 2.0, SHA-256.
- Cloud & Deployment:** Vercel, Cloudinary, UploadThing.
- Development Tools & Methodologies:** Git, Bash, Postman, Vscode, Agile, Scrum, Git Flow, Version Control, Pair Programming.
- Soft Skills:** Problem-solving, Team Collaboration, Client Communication, Time Management, Adaptability, Critical Thinking, Leadership, Attention to Detail.

## SELECTED PROJECTS

**Aspireon** [Next.js, TypeScript, PostgreSQL, DrizzleORM, Payment Gateway Integration, Vercel] [[Website](#)] [[Code](#)]

- Architected a production-ready e-commerce platform with secure JWT authentication system and Google OAuth 2.0 integration.
- Integrated PayPal and Stripe payment gateways to provide secure checkout options, implementing webhook handling and a comprehensive checkout flow.
- Developed feature-rich admin dashboard with real-time analytics, inventory management, and order fulfillment tracking using DrizzleORM & PostgreSQL.
- Optimized database queries and implemented server-side caching, resulting in faster page load times and improved user experience metrics.
- Deployed and maintained application on Vercel with automated CI/CD pipeline for reliable and efficient development workflow.

**Blaze Calisthenics** [Next.js, TypeScript, Node.js, MongoDB Atlas, Cloudinary, CMS Architecture, Vercel] [[Website](#)] [[Code](#)]

- Engineered a high-performance landing page utilizing Next.js SSR/SSG capabilities for improved user experience and SEO ranking.
- Implemented responsive design with mobile-first approach and CSS Grid/Flexbox, ensuring seamless user experience across all device viewports.
- Developed a custom headless CMS with WYSIWYG editor, enabling admins to independently manage dynamic content through an intuitive admin interface.
- Integrated Cloudinary Content Delivery Network for optimized image transformations and lazy loading, reducing initial page load time.
- Architected MongoDB document schema with indexing optimizations for efficient content retrieval and real-time updates.
- Deployed application to Vercel with continuous integration and automated preview deployments for efficient development workflow.

**Task Hive** [React, TypeScript, Node.js, Express, MongoDB, RESTful API Architecture, Vercel, Firebase] [[Website](#)] [[Code](#)]

- Developed a Kanban-style task management application with React DnD for intuitive drag-and-drop functionality, improving project workflow visibility and team productivity.
- Implemented JWT-based authentication system using Bearer tokens in request headers, with bcrypt password hashing and validation middleware for protected routes.
- Engineered RESTful API with Express.js following MVC architecture pattern, implementing middleware for request validation, error handling, and response normalization.
- Designed MongoDB schema with Mongoose ODM, incorporating data validation, custom indexing, and efficient query patterns for optimized performance.
- Integrated GitHub repository with Vercel platform to enable automated deployments, streamlining the transition from code commits to live app updates.

## EDUCATION

**Modern University for Business and Science**

Damour, Lebanon

B.A. in Computer Science (In Progress)

Oct 2022 - Present

GPA: 3.48/4.0 Honors: Dean's List (Spring 2024)

**The Silesian University of Technology**

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Erasmus+ Program