Ala Mdalla

Software Engineer

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Education

ESPRIT – Private Higher School of Engineering and Technology, Tunis
Bachelor's in Software Engineering   *Sep. 2021 – Jun. 2026*

Technical Skills

- **Languages:** Java, JavaScript/TypeScript, PHP, C/C++, Python, SQL
- **Frameworks:** Spring Boot, Angular, Node.js, React, Next.js, Qt, Flask
- **Tools/DBs:** Docker, Git, CI/CD, Linux, JWT, REST, MongoDB, MySQL, PostgreSQL

Professional Experience

DevOps & Microservices Engineer Intern   *Jul. 2025 – Aug. 2025*
FORVIA, Tunis
- Built an internal DevOps tool to validate version changes across 30+ microservices during PRs.
- Automated dependency analysis and breaking-change detection using **Node.js**.
- Integrated CI/CD pipelines via **Azure DevOps API**, reducing integration failures by 65%.

Software Developer Intern   *Oct. 2024 – Jan. 2025*
CustomapsxEnsemble, Montreal (Remote)
- Refactored and documented a legacy **PHP** codebase, improving maintainability and readability.
- Delivered incremental features and resolved high-impact bugs, stabilizing production releases.
- Created rapid **MVP prototypes** for feature validation and client feedback loops.

Software Developer Intern   *Jun. 2024 – Aug. 2024*
Hydatis, Tunis
- Designed and developed a **Payment Microservice** using **Spring Boot** and **Angular**.
- Applied **SOLID principles** and the **Strategy Pattern** for cleaner, scalable architecture.
- Containerized services with **Docker**, enabling fast and reproducible deployments.

Software & Network Intern   *Jun. 2022*
Tunisair, Tunis
- Automated internal email workflows using **PHPMailer**, cutting manual effort.
- Supported configuration and troubleshooting of **Cisco** devices, improving network reliability.

Projects

Accessly – Personal Project   *Ongoing*
🌐 accessly.me
- Built an **access-management platform** centralizing authentication, authorization, and policy enforcement.
- Architected as a **monorepo** with shared types/UI for consistency across client and server.
- Frontend: **Next.js (TypeScript)** — secure admin dashboard and modular component library.
- Backend: **Supabase (Postgres + Auth)** with TypeScript services for token, audit, and policy management.
- Added **Board** and **Notifications modules** (real-time, event-driven pub/sub architecture).
- Result: Scalable, decoupled system with high developer experience and strong modularity.

Marimex – Freelance Project   *Jun. 2023 – Aug. 2023*
🌐 marimexste.com
- Rebuilt multilingual e-commerce site using **Next.js 14**, with SEO and dynamic product routing.
- Integrated **Google One Tap**, admin guards, and typed contexts for secure state handling.
- Developed a reusable UI kit (dialogs, toasts, sheets) and integrated Messenger chat + map picker.
- Optimized performance with server components, lazy loading, and code splitting.

Leadership & Activities

AIESEC Bardo   *Oct. 2023 – Jul. 2024*
Active member in leadership programs developing teamwork, communication, and project coordination skills.