

# Ala Mdalla

<https://alamdalla.vercel.app/>

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## EDUCATION

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- **ESPRIT – Private Higher School of Engineering and Technology** Tunis, Tunisia  
*Bachelor's Degree in Software Engineering; GPA: 3.66/4.0* Sep. 2021 – Expected Jun. 2026
- **Carthage Byrsa High School** Carthage, Tunisia  
*Baccalaureate in Mathematics* Jun. 2021

## EXPERIENCE

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- **FORVIA** Tunis, Tunisia  
*DevOps & Microservices Intern* Jul. 2025 – Aug. 2025
  - **Microservices Dependency Analysis:** Analyzed and mapped dependencies between microservices to improve traceability and impact analysis across the architecture.
  - **CI/CD Pipeline Automation:** Developed a CI/CD pipeline to automatically trigger relevant microservice deployments upon changes in dependent services, using Git-based triggers.
- **CustomapsxEnsemble** Montreal, Canada (Remote)  
*Software Developer Intern* Oct. 2024 – Jan. 2025
  - **Debugging and Optimization:** Contributed to debugging efforts in a legacy **PHP** and **JavaScript** codebase, enhancing application stability and performance.
- **Hydatis** Tunis, Tunisia  
*Software Developer Intern* Jun. 2024 – Aug. 2024
  - **Full-Stack Web Development:** Developed a dynamic business website using **Angular**, **Spring Boot**, and **MongoDB**, demonstrating expertise in modern web technologies.
  - **Backend Testing:** Implemented unit and integration testing in **Spring Boot** to improve code reliability and maintainability.
- **Marimex** Tunis, Tunisia  
*Software Developer Intern* Jun. 2023 – Aug. 2023
  - **Dynamic Website Development:** Built a full-stack web application using **Angular**, **Node.js**, and **MongoDB**, enhancing the company's digital presence.
  - **Authentication:** Implemented secure authentication using **JWT** tokens and HTTP-only cookies, following best security practices.
- **Tunisair** Tunis, Tunisia  
*Software and Network Intern* Jun. 2022
  - **PHP Email Automation:** Developed a script using **PHPMailer** to automate client email notifications, streamlining communication processes.
  - **Networking:** Worked with **Cisco** routers and networking protocols, enhancing troubleshooting skills and infrastructure knowledge.

## PROJECTS

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- **Problem-Solving Microservice** Jan. 2024 – May 2024
  - **Microservice Development:** Designed and implemented a microservice for problem creation, submission, and automated evaluation. Ensured secure API integration with authentication and applied clean architecture principles. Utilized **SOLID** design principles and patterns such as **Builder** and **Strategy**. Containerized with **Docker** for easy deployment and scalability. GitHub
- **Avanti** Jan. 2023 – May 2023
  - **Dynamic Website:** Developed a visually rich, responsive website featuring interactive UI components and dynamic content management. Used **Bootstrap** for layout, and implemented client-server communication with **PHP** and **MySQL**. Incorporated custom styling with **CSS** and interactive elements using **JavaScript**. GitHub

- **Event Planner** Jan. 2022 – May 2022
  - **Qt Desktop Application:** Created a desktop application for event management with a clean, user-friendly GUI using **Qt** framework and **C++**. Integrated **MySQL** for persistent event data storage, enabling features like event scheduling, notifications, and attendee tracking. GitHub
- **The Time Jumper** Jan. 2021 – June 2021
  - **2D Platformer Game:** Developed a side-scrolling platformer game in **C** using **SDL 1.2**. Designed and implemented custom game mechanics, physics, and level design, with all graphic assets created using **Photoshop**. Enhanced player experience through smooth controls and animations. GitHub

## CLUBS & ACTIVITIES

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- **AIESEC Bardo** Tunis, Tunisia
  - Member* *Oct. 2023 – Jul. 2024*
    - **Leadership and Engagement:** Participated in youth leadership programs and local projects focused on personal development, global awareness, and community impact.
- **ACM INSAT** Tunis, Tunisia
  - Problem Solving Member* *2022*
    - **Algorithmic Thinking:** Enhanced skills in competitive programming and algorithmic problem solving through regular training sessions and contests.