

Abdelkarim Saleh

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ABOUT ME

Full-stack developer with a Computer Science background and practical experience in building cross-platform and web-based applications using Flutter, Java Spring Boot, and modern JavaScript frameworks. Proficient in designing RESTful APIs, implementing role-based authentication, and managing both frontend and backend systems. Developed scalable, maintainable solutions. Skilled in clean architecture, database design, and deployment on Microsoft Azure. Passionate about delivering robust and user-focused software across the full development stack.

EDUCATION AND TRAINING

2025 Tripoli, Lebanon
BSC IN COMPUTER SCIENCE Beirut Arab University

WORK EXPERIENCE

PERSONAL PROJECT

AGROPULSE - IOT GREENHOUSE MONITORING – CURRENT

- **Technology Stack:** ESP32 (C++), Spring Boot (Java), PostgreSQL, Docker, Next.js (TypeScript), Tailwind CSS
- **Smart Agriculture Hardware:** Network of soil-moisture and climate sensors providing real-time, accurate greenhouse data
- **Scalable Device Management:** Robust multi-device onboarding with unique device IDs, enabling easy expansion across farms
- **Remote Control & Automation:** Backend-triggered sensor readings for more efficient monitoring and operational control
- **Analytics Dashboard:** Real-time metrics, historical trends, alerts, and device health insights for data-driven decision-making
- **High Performance:** Optimized APIs, auto-refreshing dashboards, and containerized services for stable, scalable deployment
- **User-Centric Design:** Clean, responsive UI with an agriculture-focused theme, usable on laptops, tablets, and field devices

FREELANCE PROJECT

BEIT BAYTAK – FULL-STACK E-COMMERCE PLATFORM

Tech Stack: Next.js (TypeScript), MongoDB, Firebase, Tailwind CSS, Redux Toolkit, Zustand
<https://bet-baytak.vercel.app/>

- **Product Catalog & Search:** Dynamic product browsing with debounced real-time search
- **Shopping Cart:** Persistent cart management using Redux
- **User Authentication:** Login/signup with profile management
- **Admin Dashboard:** Product & category CRUD operations with image upload/optimization
- **Performance:** SSR/SSG, lazy loading, code-splitting, and state persistence for fast UX
- **Responsive Design:** Mobile-first layout with reusable UI components

INTELLIGILE

FULL-STACK – 31/05/2025 – 31/07/2025

Onboarding & Task Management System

Tech Stack: Flutter, Spring Boot, JPA, REST APIs

Developed a full-stack onboarding and task management app featuring:

- **Role-Based Authentication** with secure user management
- **Kanban Dashboard** with filtering, sorting, and calendar integration
- **Clean Architecture & Provider** for scalable, maintainable state management
- Designed for **desktop & web deployment**

Artifact Management Desktop App

Tech Stack: Flutter, Riverpod

Built a cross-platform desktop app with:

- **Modern UI** with custom theming and fixed window sizing
- **Modular Architecture & DI** for scalable artifact data management
- **Dynamic UI Updates** and review functionality with clean, maintainable code

📁 SENIOR PROJECT

FULL-STACK – 01/01/2025 – 27/04/2025

Tutoring Platform

Tech Stack: Next.js, React, Node.js, Express.js, MySQL, MongoDB

Developed a full-stack tutoring platform with:

- **Secure Authentication** using JWT and email verification
- **Robust RESTful API** with Node.js + Express.js
- **Responsive Frontend** built with Next.js for smooth UX

📁 INTELLIGILE

FULL-STACK – 30/04/2024 – 31/08/2024

License Management System

Tech Stack: Flutter, Java Spring Boot, Microsoft Azure

Led **frontend development** with Flutter, implementing:

- **RESTful APIs** for login/signup user authentication
- **Database schema design** to support authentication workflows
- **Backend contributions** with Spring Boot and deployment on Azure

● LANGUAGE SKILLS

Mother tongue(s): **ARABIC** | **ENGLISH** | **GERMAN**

● SKILLS

HTML | CSS | PHP | Tailwind | React.js | Next.js | Flutter | Git | Node.js | JavaScript | Java | Python | SQL | TypeScript | MongoDB | FastAPI | Java Springboot | Express.js | Postman | Linux | docker

● LINKS

Github Links

- **Bet-Baytak:**<https://github.com/aboudi03/Bet-Baytak> ; <https://bet-baytak.vercel.app/>
- **Senior Project:** <https://github.com/4li40/Senior-project> (Frontend, team collaborator) ; <https://github.com/aboudi03/backend> (Backend)
- **LeafGaurd Disease Detection:** <https://github.com/aboudi03/Leaf-Guard>
- **Onboarding App:** https://github.com/aboudi03/on_boarding_app (Frontend) ; https://github.com/aboudi03/on_boarding_app_backend (Backend)
- **Artifact Management:** <https://github.com/aboudi03/frontendtask>
- **AgroPulse:** <https://github.com/aboudi03/agropulse> ; <https://github.com/aboudi03/AgroPulse-Backend>