ABDERRAHMANE BOUALLAGA

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PROFILE

Full-stack developer specializing in building modern, high-performance web applications. I am proficient in the following technologies: React.js, Tailwind CSS, Laravel, PHP, API, WordPress, MVC Architecture, and Microservices.

EXPERIENCE

Freelance   **11/2024 - Present**
- Development of custom WordPress plugins
- Creation of tailored web solutions for clients

Racine Plus   **07/2024 - 09/2024**
- Design and development of a school payment management system

Smart Influencer web agency   **09/2023 - 11/2023**
- Development of a full-stack web application

Yovista   **07/2023 - 08/2023**
- Web scraping script development

EDUCATION

Diploma   **2023**
- (DTS) – Full stack developer

Baccalaureate   **2020**
- High school degree in Science X

PROJECTS

School Payment Management System

- Web Application (SAAS)
  Technologies used *: Laravel (API), React.js*

Description:
Designed and developed a comprehensive web application for managing school payments, featuring:

- **Division Management :**
  - Add schools and their divisions (classes/grade levels) with customizable fee types (tuition, activities, etc.).
  - Dynamic configuration of fee amounts by type, academic year, descriptions, and other details.

- **Student Management:**
  - Register students with division selection, enabling automatic pre-filling of fees based on the chosen payment type.
  - Dynamic configuration of payment options (default or customized).
- **Dashboards & Analytics:**
  - Interactive Data Visualization:
    - Track completed payments, overdue payments, and unpaid fees, organized by month.
    - Analyze financial trends for improved administrative decision-making.

LaraSchool – School Management Platform

- Web Application – Collaborative Development (Team Project)
  Technologies used *: Next.js, Laravel, MySQL, MUI.*

Description :
Centralized solution to automate academic management (students, teachers, payments). Collaborated with a peer to design and develop the application, featuring a dynamic interface and analytical dashboards.

Key Features:
- **Division Management:**
  - Create schools with customizable divisions (fee types, amounts, academic years).
  - Dynamic payment profile configuration per student.
- **Financial Tracking:**
  - Record payments, late fees, and unpaid balances with auto-generated fees based on division.
  - Data visualization via interactive charts (monthly/yearly).
- **Admin & Student Portals:**
  - Interactive dashboards for administrators.
  - Student portal to view payment history.

Technical Highlights:
- Secure Laravel API with data validation.
- Responsive React.js interface + customizable theme (dark/light mode).

WordPress Plugin - Watermark System

- PHP/WordPress Development
  Technologies used*: PHP, MySQL, WordPress API*

Description:
Custom plugin to add identifying watermarks on digital book images (comics/manga) to prevent unauthorized sharing.

Key Features:
- Dynamic watermark generation with user ID on target pages
- Access rights management via token/payment system
- Optimized database for tracking modified images
- Seamless integration with WordPress ecosystem

Technical Highlights:
- Image processing with GD Library (JPEG/PNG/WEBP)
- Modular architecture using WordPress hooks
- Secured database transactions