

Omar Wael Derbala

Senior Backend Engineer

Portfolio:	derbalajr.com	GitLab:	gitlab.com/derbalajr
Date of Birth:	04/1999	GitHub:	github.com/derbalajr
Address:	Mokattam, Cairo, Egypt	Mobile Number:	+201111293179
Email Address:	derbalajr@gmail.com	Military Status:	Exempted
LinkedIn:	linkedin.com/in/derbalajr		

PROFESSIONAL SUMMARY

Senior Backend Engineer with 3+ years of experience designing and optimizing scalable, high-performance systems. Currently leading backend development and system optimization efforts at The Address Holding. Previously contributed to national digital transformation projects with the Egyptian government and built robust backend solutions for e-commerce platforms at ACME SAICO.

WORK EXPERIENCE

Backend Engineer *(Full-time)*
The Address Holding

01/2025 - Present

- Maintain and optimize a large-scale, PHP-based internal CRM-ERP system
- Handle performance tuning, caching (Redis), and query optimization
- Develop new backend features based on evolving business needs
- Contribute to system architecture using Clean Architecture and Domain-Driven Design (DDD) principles
- Collaborate with cross-functional teams to ensure system reliability and scalability

Full Stack PHP Developer *(Part-time)*
TSR Ventures & Solutions - Netherlands

10/2024 - Present

- Lead the development and optimization of server-side applications using PHP, Yii, MySQL, and Linux, ensuring scalability and high performance
- Design and implement robust RESTful APIs for seamless integration between front-end and back-end systems
- Ensure system scalability, performance optimization, and reliability

Full Stack PHP Developer (Full-time)

10/2022 – 01/2025

Acme Saico - Egypt

- Contributed to digital transformation projects for the Egyptian government, specializing in backend architecture and system optimization
- Designed and implemented scalable, high-performance systems using PHP (Laravel), MySQL, and Linux
- Architected and optimized RESTful APIs, ensuring seamless system integration and improved efficiency
- Led the development and maintenance of e-commerce platforms with a focus on performance and scalability
- Enhanced SQL queries and database structure to improve performance for high-traffic applications with large datasets
- Implemented Agile practices, streamlining development and deployment processes for faster, more efficient delivery

FEATURED PROJECTS

Internal CRM-ERP System for The Address

The Address Holding

A fully customized internal CRM-ERP platform developed for The Address, a leading real estate company with over 6,000 employees. The system handles end-to-end real estate operations including lead management, property listings, client tracking, and sales pipelines. On the ERP side, it covers a wide range of business functions such as HR (hiring, contracts, payroll), finance, employee management, task tracking, internal workflows, and company-wide performance monitoring.

Responsibilities:

- Provide ongoing support and performance optimization for the production system
- Manage caching layers using Redis and ensure system stability under high load
- Optimize MySQL queries and backend logic to improve response times
- Develop new features and modules based on internal requirements
- Follow clean architecture and Domain-Driven Design (DDD) principles for scalable development

Egyptian Customs Authority

Acme Saico

Egyptian Customs is a crucial initiative aimed at modernizing and streamlining customs operations in Egypt. The project focuses on enhancing the efficiency of customs processes, ensuring compliance with regulations, facilitating smooth trade operations, and implementing the Advance Cargo Information (ACI) system for pre-registration of shipments.

Responsibilities:

- Developed a scalable and secure backend system using microservices architecture for managing customs data and transactions, ensuring data integrity and confidentiality
- Implemented advanced authentication with multi-factor authentication (MFA) to enhance security
- Handled backend development for the registration of facilities, including "Stakeholder," "Customs Broker," "Shipping Agent," and "Freight Forwarder," as well as user registration
- Created APIs to support frontend development, enabling seamless interaction with backend systems

Welhof (E-Commerce Platform)

TSR Ventures

Welhof is an e-commerce platform offering affordable, eco-friendly refurbished home appliances with a focus on quality and customer satisfaction.

Responsibilities:

- Developed and implemented features for adding, editing, and managing products and categories
- Built warehouse management tools for inventory tracking and stock updates
- Streamlined backend processes for efficient handling of product, category, and warehouse data

Delecato (WooCommerce E-Commerce Website)

Freelance Project

Developed a custom WooCommerce store for a Germany-based brand selling dates, nuts, and dried fruits.

Responsibilities:

- Built the entire website with tailored UI, product structure, and performance optimization
- Integrated Stripe for online payments and DPD for shipping automation

Exponile (E-Commerce Platform)

Acme Saico

Exponile has emerged as Egypt's premier e-commerce destination, dedicated to promoting local brands and providing an intuitive shopping platform tailored to the needs of Egyptian consumers, merchants, and administrators. Our goal is to drive growth within the domestic market.

Responsibilities:

- Spearheaded frontend enhancements, significantly improving user experience, integrating Leaflet maps, and optimizing UI responsiveness
- Architected a robust and scalable backend system for efficient order processing, secure user authentication, and data management
- Implemented advanced filtering and search functionalities for products, enhancing user convenience and search accuracy
- Developed a seamless order management system, streamlining the process from order placement to final delivery
- Created an intuitive merchant dashboard, enabling efficient product management, sales tracking, inventory control, and offers
- Designed a comprehensive admin dashboard, allowing for streamlined platform oversight, analytics, offer management, and control

National Archives of Egypt

Acme Saico

Egypt's plan for digital transformation includes proposals for automated archival solutions to streamline file management, ensuring reliable access to digitized records stored in a specialized data center.

Responsibilities:

- Developed the admin side of the application, implementing RBAC and enhanced security measures
- Established user relationships and implemented lookup functionalities
- Created frontend components and a custom permission management package for improved usability

 [Coverage by Masrawy \(Arabic\)](#)

 [Project Overview: مشروع رقمنة دار المحفوظات العمومية \(YouTube\)](#)

National Silos of Egypt

Acme Saico

Implemented an AI-powered platform leveraging IBM Hybrid Cloud technology and Cloud Paks to streamline end-to-end governance of shipping, transportation, and warehousing in silo wheat handling.

Responsibilities:

- Integrated with various silos across Egypt, utilizing node.js for communication with different scales
- Ensured seamless communication between the AI-powered platform and scales for efficient operation

 [Coverage by El Watan News \(Arabic\)](#)

EDUCATION

Bachelor of Science in Computer Science – Dual Degree

09/2018 – 08/2022

Graduated with second-class honors

- Arab Open University – Egypt
- The Open University – United Kingdom

VOLUNTEERING EXPERIENCE

Enactus

01/2019 – 05/2022

Volunteer International Activity

- **Role:** Vice Head of the Project Management team
- **Certifications:** Vice Head of the Semester, Member of the Semester, and Member of the Month three times

Robotics Club

04/2021 – 03/2022

- **Role:** Bots Hunters Team Leader
- **Certifications:** Third place in the Line Follower Competition

COURSES

- The Complete MERN Web Development Bootcamp - Udemy 02/2022
- Meta Back-End Developer - Coursera 08/2022
- React - The Complete Guide (incl Hooks, React Router, Redux) - Udemy 04/2023
- Tools of the Trade: Linux and SQL - Google 04/2024

TECHNICAL SKILLS

- Programming Languages: PHP, JavaScript (Node.js), Java, Python
- Web Development Frameworks/Libraries: Laravel, Yii, React.js, Next.js, Node.js, jQuery
- Frontend Technologies: HTML, CSS, Bootstrap, Material UI, Tailwind CSS
- Database Management: MySQL, SQL, Redis (Caching and Performance Optimization)
- API Development: RESTful APIs, Microservices
- Version Control: Git (GitLab, GitHub)
- Software Architecture: Microservices, Clean Architecture, Domain-Driven Design (DDD), SOLID Principles, Design Patterns
- Cloud & DevOps: Docker, Kubernetes, CI/CD Pipelines, Linux
- Other: WordPress, Unity (Game Development)

LANGUAGES

- Arabic: Mother tongue
- English: Fluent
- German: Beginner