# Mahmoud Ahmed

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## [IT Student | Back-End Developer]

**Problem-Solving Skills | PHP Development | Independent Work and Time Management**

An enthusiastic and dedicated Back-End Developer with 1.5 years of hands-on experience in scalable web application development, specializing in the Laravel framework. A proud student at Beni Suef Technological University, pursuing Information Technology, with a strong foundation in PHP, MySQL, HTML, CSS, and JavaScript. Proven ability to design robust backend architectures, optimize database queries, and ensure the security and performance of web services. Excel in building robust APIs and integrating complex business logic with clean, maintainable code. Actively involved in collaborative problem-solving initiatives, enhancing teamwork and analytical skills. Eager to leverage expertise in modern PHP development, RESTful API design, and Agile methodologies to contribute to innovative software solutions and drive team success.

## WORK EXPERIENCE

**Grenco (Startup Company)** - *Beni Suef, Egypt*                    12/2024 – Present

**Back-End Developer**

- Designed, developed, and maintained scalable web applications using the Laravel framework, contributing to enhanced user experience and performance.
- Built and optimized robust RESTful APIs, ensuring seamless front-end and back-end integration for various applications.
- Collaborated closely with front-end developers (Vue.js and Inertia.js) to deliver seamless user experiences and integrate complex business logic with clean, maintainable code.
- Contributed to system architecture discussions and collaborated with cross-functional teams to define and implement new features.
- Managed deployment pipelines and implemented notification systems, such as automated email alerts for dynamic features.
- Participated in code reviews, providing and receiving constructive feedback to maintain high coding standards
- Troubleshot, tested, and maintained core product software and databases, optimizing performance and functionality.

**UICC (University Industry Cooperation Center)** - *Beni Suef, Egypt*            01/2022 – 2024

**Back-End Developer**

Responsible for developing and maintaining web applications using PHP and Laravel framework.

- Developed and maintained responsive web applications, improving user experience and performance.
- Implemented RESTful APIs to support various applications, ensuring seamless front-end and back-end integration.
- Collaborated with senior developers to design and implement new features, contributing to project success.
- Participated in code reviews, providing and receiving constructive feedback to maintain high coding standards.

## PROJECTS

**UniVerse Project (Graduation Project)**

- Led the development of a University Management System with Laravel and Vue.js, centralizing academic activities, attendance, and resource distribution.
- Implemented an advanced assessment system with multiple question types, timed quizzes, and file upload assignments.
- Developed a smart attendance system using QR codes for lectures, with real-time analytics and mobile integration.
- Utilized Python-based OR-Tools for automated timetable generation and Chart.js for interactive data visualization.

**School Management System**

- Developed a comprehensive School Management System using Laravel, streamlining administrative, academic, and communication processes.
- Implemented role-based access, Livewire integration for dynamic UIs, and multi-language support with RTL compatibility.
- Designed and integrated modules for student and teacher management, class and subject organization, attendance tracking, and gradebook functionality.
- Created RESTful APIs for seamless integration with other systems and mobile applications.

**Grenco Project**

- Built a modern, professional Vue.js single-page application for Grenco, showcasing smart plastic recycling solutions.
- Implemented full multilingual support (Arabic RTL, English LTR) and integrated with Contentful CMS for dynamic content management.
- Developed a comprehensive product showcase for recycling machines with detailed specifications.
- Focused on responsive design, smooth animations, and optimized performance for a superior user experience

## EDUCATION

**Beni Suef Technological University** - *Beni Suef, Egypt*

Bachelor of Technology – Information & Communication Technology, Present

## PROFESSIONAL SKILLS

- Developed and maintained web applications using PHP and the Laravel framework.
- Wrote clean, efficient, and well-documented code, ensuring high performance and responsiveness.
- Collaborated with front-end developers to integrate user-facing elements with server-side logic.
- Developed and integrated RESTful APIs to support various applications.
- Participated in code reviews, providing and receiving constructive feedback.
- Troubleshot, tested, and maintained core product software and databases, optimizing performance and functionality.
- Worked with version control systems (Git) to manage codebase and track changes.
- Applied Agile methodologies to manage projects and meet deadlines.

## CERTIFICATIONS

- **McKinsey Forward Program** | McKinsey & Company | Issued Dec 2024
- **Advanced Learning Algorithms** | Stanford Online | Issued Oct 2024
- **AI Training** | Information Technology Institute (ITI) | Issued Aug 2024
- **Supervised Machine Learning: Regression and Classification** | Stanford Online | Issued Jul 2024
- **Participation in Event Management** | The Egyptian Company for Developing Education Technologies (BEDO) | Issued Sep 2023
- **IT Practical Training** | Omal Misr Complex | Issued Aug 2023
- **Certificate of Excellence (Arduino Summer Training)** | UICC| Issued Sep 2022

## VOLUNTEER EXPERIENCE

**ICPC BTU Community** - *Beni Suef, Egypt*                    10/2023 – PRESENT
**Community Center**

- Collaborated with peers on complex problem-solving initiatives, enhancing teamwork and analytical skills.

- Volunteered time to support and organize community events, promoting coding and technology education.

**UCCD Beni Suef** - *Beni Suef, Egypt*                    10/2024 – PRESENT

- Volunteered at the UCCD Center, assisting in organizing community outreach programs and providing support for educational initiatives aimed at underprivileged students.

- Developed strong interpersonal and teamwork skills while contributing to projects that enhanced educational opportunities and community engagement.

## AWARDS AND HONORS

**Best Capstone Design Project Award** - *Beni Suef, Egypt*                    07/2023

- Recognized for outstanding project in Capstone Design, demonstrating technical excellence and innovation.

- Successfully led a team to develop a high-quality web application, showcasing proficiency in PHP and Laravel.

## LANGUAGE COMPETENCIES

- Arabic: native language
- English: fluent (reading, writing); intermediate (speaking)
- Korean: intermediate (reading, writing, speaking)