

# Abdelrahman Alnabawy

Software Developer

5th District, 6th of October

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**Career Objective:** Software Developer with 2+ years of experience building ERP and full-stack systems using Python, Odoo, and modern web technologies. Focused on scalable, maintainable, and efficient software design.

## Work Experience

### Ministry of Interior of Egypt, Software Developer, September 2024 - November 2025

- Developed an accounting system using **Odoo 18** to streamline financial operations.
- Designed and implemented a comprehensive **inventory management system** for store operations.
- Built a **personnel management system** to track soldiers' records and service details.
- Developed a **mobile application** for quick and secure access to soldiers' information.
- Created a **gate control system** to record and monitor all entries and exits.
- Digitized and automated government workflows by converting manual records into digital systems.
- Optimized **Linux server performance** to support large-scale deployment and multi-service operations.
- Maintained and repaired computer systems to ensure consistent performance.
- Collaborated with the **Major General, Director of the Cairo Traffic Department**, and the **Brigadier General, Director of the Training and Recruits Department**, to align digital transformation goals with operational needs.

### IT-ARM, Odoo Developer, June 2024 - November 2024

- Developed a complete POS system for a restaurant using Odoo 17.
- Built a dynamic and responsive user interface with the OWL framework.

### Ahram Canadian University, Odoo Developer, July 2023 – June 2024

- Implemented and customized ERP systems, including Accounting, HR, and Academic modules.
- Developed a Flutter mobile application for students to view personal data and request services.
- Configured a Linux server and deployed both the Odoo system and mobile app using Nginx for network management.
- Collaborated with clients to analyze requirements and deliver optimized, user-centered solutions.
- Used Jira for project management, sprint planning, and issue tracking.

### Upwork, Web Developer, June 2021 - September 2021

- Assisted clients in designing and developing custom web applications.
- Maintained and debugged existing applications to ensure optimal performance and reliability.
- Applied **object-oriented programming (OOP)** principles and **software design patterns** to build scalable solutions.
- Communicated effectively with clients to gather requirements and deliver high-quality results.

### The Spark Foundation Internship – TSF, Web Developer, August 2021 - August 2021

- Gained hands-on experience in building dynamic web applications.
- Developed object-oriented applications using **PHP**.
- Integrated and retrieved data efficiently from databases using **SQL**.
- Designed interactive user interfaces using **HTML**, **CSS**, **JavaScript**, and modern front-end frameworks.

## Education

### Ahram Canadian University – ACU, BS in Computer Science, 2020 - 2024

- Graduated with a **GPA of 3.48**, ranking **14th** in the class.
- Awarded for the **Best Graduation Project** among all projects of the academic year.
- Gained strong understanding of **algorithms**, **data structures**, and applying theoretical concepts to real-world applications.
- Improved **communication** and **teamwork** skills through collaborative projects and academic participation.

### American University in Cairo – AUC, English Courses, 2023 - 2024

- Developed effective communication skills in **English**, both written and verbal.
- Gained the ability to express ideas clearly and confidently in professional and academic contexts.

### Coursera – Online Learning Platform

- Completed multiple courses in core software engineering topics.
- Gained hands-on experience in **Object-Oriented Programming (OOP)** and **Design Patterns**.
- Strengthened understanding of **Algorithms** and their real-world applications.

- Learned modern **Web Development** practices, including front-end and back-end integration.

## Skills

- **Programming Languages:** Java, C/C++, Python, PHP, JavaScript, SQL
- **Web Technologies:** HTML, CSS, SASS, LESS, Web Development, API Integration
- **Frameworks & Libraries:** Odoo, React, Spring Boot, Flutter, Flask, Bootstrap, jQuery, Handlebars, Twilight
- **Databases:** PostgreSQL, MySQL
- **DevOps & Tools:** Linux, Shell Scripting, Docker, Nginx ,DevOps Practices
- **Machine Learning & Data Science:** TensorFlow, PyTorch, Scikit-learn, OpenCV, Transformers, Pandas, NumPy, Matplotlib
- **Concepts:** Object-Oriented Programming (OOP), Software Design Patterns

## Key Projects

### Graduation Project – Medical Chatbot

- Selected among the **best graduation projects** at Ahram Canadian University.
- Designed and implemented the **medical text processing module** to analyze and generate intelligent medical responses.
- Achieved results with response accuracy remarkably close to that of professional doctors.
- Led one-third of the project, focusing on **NLP and medical dialogue systems**.

### Transpolar (JS → Python Converter)

- Developed a **Python-based converter** for translating JavaScript (.js) code into Python (.py).
- Implemented translation logic for syntax elements such as **if statements, loops, functions, and classes**.
- Strengthened understanding of **language design, syntax parsing, and cross-language logic mapping**.

### Movie and TV-Show System

- Developed a media streaming platform using **React**, integrating multiple free APIs including **Vidsrc** for dynamic content sourcing.
- Identified inefficiencies in direct API requests and built a **centralized JavaScript API** to aggregate and streamline data delivery.
- Enhanced system performance and maintainability by optimizing API management and reducing redundant network calls.

### YouTube – Video Management System

- Built a full-stack video management platform using the **MAMP stack (MySQL, Apache, PHP)** along with **HTML, CSS, and JavaScript**.
- Implemented features for **video uploading, playback, and user interaction**, inspired by platforms like YouTube.
- Gained hands-on experience in **backend integration, database design, and frontend media rendering**.

### Simulator – NASA-Inspired Visualization

- Developed an **OpenGL**-based simulation inspired by NASA concepts to visualize size comparisons between Earth and other solar system objects.
- Designed and rendered **3D models** to illustrate planetary scale differences and spatial relationships.
- Strengthened skills in **computer graphics, 3D rendering, and scientific visualization**.

## Languages

Arabic, English (**Advanced**); French, German (**Conversational**)