

Mahmoud M, Yousef

Full Stack Developer (Django & React)

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Education

Zagazig University

Bachelor's Degree in Computer Science

Grade: Very Good

Graduation Project: Neurological Disease Diagnostic System Using Artificial Intelligence

Graduation Project Grade: Excellent

Sep 2019 – Jul 2023

Professional Experience

Instructor

National Telecommunication Institute (NTI)

Jul 2025 – Present

- Delivered comprehensive training in Python programming to students enrolled in the NTI Intake System.
- Designed and implemented a structured curriculum covering core Python concepts, object-oriented programming, file handling, and working with libraries such as pandas, NumPy, and matplotlib.
- Led hands-on coding sessions and practical exercises to reinforce theoretical knowledge and improve problem-solving skills.
- Evaluated student performance through projects, quizzes, and code reviews, providing constructive feedback and support.
- Contributed to curriculum development and continuously updated course materials to reflect the latest industry practices.

Backend Developer (Django & ERP Next)

Hinet Soft 🔗

Nov 2024 – present | Mansoura, Egypt

- Developed and maintained scalable web applications and APIs using Django, Django REST Framework and ERPNext.
- Designed efficient database models, optimized queries, and implemented business logic.
- Integrated third-party services for authentication, payments, and real-time features.
- Ensured application performance through caching, background tasks, and query optimization.
- Wrote tests to maintain code quality and implemented security best practices.
- Collaborated with cross-functional teams to deliver seamless user experiences.

Full stack developer (Django & React)

Z Digital Marketing 🔗

Jan 2024 – Oct 2024

Dubai, Business Bay Fujairah, Al Hail,
United Arab Emirates

- Developed and maintained web applications using Django (backend) and React (frontend).
- Demonstrated high technical skills, strong commitment, and effective teamwork and communication abilities.
- Contributed significantly to improving application performance and security, and developing new features.
- Worked remotely and effectively throughout the employment.

Projects

Social Network Platform using Django & React.js 🔗

Developed a full-stack web application using Django for the backend, with PostgreSQL as the database, and React.js with TypeScript for the frontend. Key features include:

- **Authentication & Authorization** Secure login, registration, and session management with protected routes.
- **User Profiles** View and update personal info, profile pictures, and bios.
- **Friend System** Send, accept, or decline friend requests; mutual friends and suggestions supported.
- **Real-Time Feed** Scrollable news feed displaying posts from friends and followed users using React Query for data fetching and caching.
- **Post Creation & Interaction** Users can create text/image posts, like, comment, and view reactions with smooth Framer Motion animations.
- **Responsive UI** Built with shadcn/ui and Tailwind CSS to deliver a sleek, responsive design optimized for all devices.
- **Notifications System** Real-time notifications for friend requests, likes, and comments.
- **Dark Mode Support** Theme toggle with persistent dark/light mode preference.
- **Search Functionality** Quickly find users and friends via an optimized search interface.
- **Modular & Scalable Codebase** Structured with TypeScript for type safety and scalability, ideal for larger production environments.

E_Commerce using django 🔗

- Designed and developed a comprehensive e-commerce platform using Django, featuring secure user authentication and account management.
- Implemented dynamic product listing and management with filtering and search capabilities.
- Integrated multiple payment methods, including PayPal, Stripe, and Cash on Delivery, for a flexible and user-friendly checkout experience.
- Built a responsive design ensuring seamless functionality across desktop, tablet, and mobile devices.
- Developed a robust cart and checkout system for efficient order processing and tracking.
- Created an intuitive admin panel for managing products, orders, user accounts, and payment details effectively.

E_Commerce using React

Developed a modern and responsive e-commerce frontend using React and Tailwind CSS, leveraging APIs from a Django-based backend. The application provides a seamless and engaging user experience with the following features:

- **Dynamic Product Display:** Fetches and displays product data via APIs, with support for filtering, sorting, and search functionality.
- **Interactive Design:** Utilized **Tailwind CSS** for responsive layouts and **MUI** for reusable UI components, ensuring a polished and consistent design.
- **Smooth Animations:** Integrated **Framer Motion** for visually appealing transitions and animations across the platform.
- **Cart and Checkout:** Developed an intuitive cart interface, enabling users to manage items dynamically and proceed through a streamlined checkout process.
- **Authentication Integration:** Implemented frontend authentication flows for login, registration, and secure session management using API tokens.
- **Payment Integration:** Designed payment interfaces for PayPal, Stripe, and Cash on Delivery methods, integrating APIs for secure transactions.
- **Responsive Design:** Optimized for mobile, tablet, and desktop, ensuring usability across all devices.
- **Reusable Components:** Built modular and reusable components for scalability and efficient development.

Travel Booking Platform

Contributed as a backend developer to a large-scale travel booking web application for managing hotel reservations, flight bookings, and car rentals, built as an internal project modeled after Booking.com.

- Designed and implemented scalable RESTful APIs using Django REST Framework for booking hotels, flights, and cars.
- Developed complex data models for listings, bookings, availability, pricing, and user management.
- Implemented authentication and authorization using JWT, including user roles for customers and service providers.
- Built background tasks with Celery and Redis for booking confirmations, email notifications, and payment processing.
- Integrated third-party services (e.g., payment gateways, flight/car APIs (Amadues)) for real-time data and transaction handling.
- Optimized database queries and implemented caching strategies for performance improvements.
- Wrote unit and integration tests to ensure code quality and reliability.
- Collaborated with frontend developers and DevOps engineers to deliver secure, production-ready APIs.

ERP Next App

- Developed RESTful APIs to connect ERPNext backend with a custom mobile application interface, enabling real-time data access for company staff on mobile devices.
- Integrated core ERP modules such as Sales, Inventory, HR, and Projects, streamlining business operations and improving decision-making speed.
- Implemented authentication and authorization for mobile users using ERPNext's user management system.
- Optimized data serialization and query performance to ensure fast mobile access to key business insights.
- Wrote clear documentation for API endpoints to support frontend/mobile teams and future maintenance.

Courses

FRONT-END DEVELOPMENT	Dec 2023 – Jul 2024 cairo, egypt
route academy	
PYTHON DEVELOPER USING DJANGO	Aug 2023 – Dec 2023 Online
Eng.Mahmoud Ahmed	
MACHINE LEARNING NANODEGREE	Jan 2023 – Aug 2023 Online
Eng.Tamer Eid & Eng.Hadelin de Ponteves	

Skills

• html	• css	• java script	• python
• django	• deep learning	• React	• Tailwindcss
• bootstrap	• Next.js	• Material Ui	• Rest Framwork

Languages

- Arabic
- English