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Objective

If you're searching for a dedicated Backend Engineer who excels in Python and JavaScript while bringing a passion for AI and machine learning, I'm excited to connect. My experience includes developing innovative solutions in healthcare, real estate, and entertainment. I'm eager to leverage my skills in Django, TensorFlow, and advanced machine learning to drive impactful projects.

Professional Experience

Freelance Backend developer

12/2022 – present

Design and develop apps and ML models to clients according to specifications such as medical-care system and Pet-store system

Education

Cairo Higher Institute
GPA: 3.73

Bachelor of Science in Computer Science
Graduation Date: June 2024

Graduation Project: X-Care platform

- **Overview:** Developed an innovative healthcare platform to transform patient-doctor interactions using advanced AI and web technologies. The platform integrates diagnostic tools, appointment management, and community features into a unified solution.
- **Technologies Used:** Django, Keras, Inception, Django Rest Framework, Angular, OpenCV, Transformers.
- **Role:** Backend and AI Developer.
- **Key Contributions:**
 - **AI Image Model:** Achieved 97% accuracy in detecting skin and brain tumors using Keras and Inception, with plans to expand to breast cancer detection.
 - **Web Platform:** Engineered features for intelligent chat, dynamic blogging, smart booking, and medical store ordering, with personalized dashboards for users and a robust admin interface.
 - **Mobile App:** Created real-time chat support, a blog platform, and a doctor directory for seamless mobile experience.
 - **Security and Integration:** Implemented advanced security with GRU, attention mechanisms, and CORS; planned future integration of blockchain and model connectivity.

Project Grade: Excellent

Projects

Mask detection with distance

- **Overview:** Developed a machine learning model using Convolutional Neural Networks (CNN) with Keras to detect whether individuals are wearing masks leveraging a dataset from Kaggle.
- **Technologies Used:** CNN, Keras, OpenCV, Python.
- **Key Achievements:**
 - Achieved high accuracy in real-time mask detection and distance estimation.
 - Successfully implemented a system to ensure compliance with health guidelines in public spaces.

Pet-store System

- **Overview:** Developed an online platform for ordering pet supplies and booking vet appointments from nearby suppliers and clinics.
- **Technologies Used:** Django, Google Maps API, SQLite, PayPal API.
- **Role:** Full-stack Developer.
- **Key Contributions:**
 - Integrated multi-supplier ordering and delivery.
 - Implemented a vet booking system with a dedicated dashboard.
 - Utilized Google Maps for location services and PayPal for payments.

Realtor-APP

- Overview: Developed a platform for users to search, buy, or rent houses directly from sellers without intermediaries. Users can upload property listings, chat with sellers, and use a contact form for support or feedback.
- Technologies Used: Django, Google Maps API, SQLite, PayPal API, SMTP Protocol, JavaScript.
- Role: Backend Developer, JavaScript Developer.
- Key Contributions:
 - Built a direct messaging system to facilitate buyer-seller communication.
 - Implemented property search and listing upload features.
 - Integrated Google Maps for location-based property searches and PayPal for secure transactions.
 - Developed a contact form using SMTP Protocol for user feedback and support.

Cinema Tickets API

- Overview: Developed an API system that allows users to easily book movie tickets using their name and phone number. The system also displays available movies and their corresponding hall numbers.
- Technologies Used: Django, SQLite, Django Rest Framework.
- Role: Backend Developer.
- Key Contributions:
 - Implemented a user-friendly booking process requiring minimal information.
 - Designed the API to display movie listings and associated hall numbers.

Blog-series-API

- Overview: Developed an API system enabling users to view, comment on, and post blogs to share their thoughts on movies or series. The system is adaptable for various blogging purposes.
- Technologies Used: Django, SQLite, Django Rest Framework.
- Role: Backend Developer.
- Key Contributions:
 - Designed and implemented a flexible blogging platform.
 - Enabled user interaction through commenting and content creation.

Technical-Skills

Programming Language (*Python, Java, C++, JavaScript, C#.*)

Machine Learning (*Supervised, Unsupervised, Deep Learning, CV*)

ML & DL frameworks (*Scikit Learn, OpenCV, TensorFlow, Keras, pytorch*)

Backend frameworks (**Django, fast api**)

Data Science (*NumPy, pandas, Statistics & Probability, nltk*) **Database**

(*SQL*) | **Data Visualization** (*Matplotlib, Seaborn*) **Git/GitHub** |

RESTFRAME APIs | **Network basics**

Linux Command & shell scripting

Languages

Arabic

Native



English

Upper-Intermediate

