# Mahmoud Bayoumi Said Bayoumi

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## Professional Summary

Due to 3+ years of experience as a Python Backend Developer Since 2021 Until Now; Especially, in data crawling and developing new technologies using Python frameworks (Django, Flask), i seek to be one of the Staff for achieving more success & progress together.

## Experience

- **Python Developer - Dar-Kasb, Saudi Arabia**                    August 2023 - Present
  - Developed RESTful APIs.
  - Optimized database queries.
  - Implemented authentication and authorization mechanisms.
  - Integrated third-party services.
  - Implemented background task queue using Celery.
  - Deployed applications using Gunicorn, Nginx, and Supervisor.

- **Python Developer - Z2data, United States of America**                    April 2022 - August 2023
  - Developed and maintained automation tools, specifically scraping tools using Python (Requests, BeautifulSoup, Selenium, Puppeteer, LXML, JSON, MongoDB, Django).
  - Wrote validation schemas in MongoDB.
  - Developed RESTful APIs.
  - Integrated third-party services.

- **Python & Robotics Instructor - shine Academy, Egypt**                    August 2021 - April 2022
  - Taught students programming concepts using Python, enhancing their coding skills.
  - Programmed robots, guided students through the programming stage.

## Education

- **Higher Technological Institute, 10th of Ramadan**                    Class 2021
  Bachelor's Degree in Computer Science
  Grade Point Average : Excellent (3.64)

## Technical Skills

- Programming Languages: Python, C++
- Databases: SQL, MongoDB, PostgresSQL, Redis, Sqlite3
- Frameworks: Django, Flask
- Web Technologies: HTML, CSS, Angular
- Task Queue & Messaging: Celery
- Others: Web Scraping, RESTful APIs

## Backend Development Skills

- Develop back-end components to improve responsiveness and overall performance
- Write effective, scalable code & Integrate user-facing elements into applications
- Assess and prioritize feature requests
- Developing applications using the python programming language.
- Involvement in all aspects of the software development life cycle, from requirements gathering to testing and deployment
- Testing applications thoroughly before deployment in order to ensure that they are free of errors
- Updating software programs as new versions become available
- Keep up to date with emerging trends and technologies in Python development.
- Debugging codes when required and troubleshooting any Python-related queries
- Developed and maintained automation tools, specifically scraping tools using Python (Requests, BeautifulSoup, Selenium, Puppeteer, LXML, JSON, MongoDB,

Django).
- Implemented background task queue using Celery
- Deployed applications using Gunicorn, Nginx, and Supervisor.
- Wrote validation schemas in MongoDB
- Implemented authentication and authorization mechanisms.

## Certifications

- Using Python to Access Web Data, Coursera ; June 2021
  https://www.coursera.org/account/accomplishments/verify/HZSVCP3N4FXQ
- Programming for Everybody (Getting Started with Python), Coursera ; April 2021
  https://www.coursera.org/account/accomplishments/verify/KSKDRVSUQGFH
- Python Data Structures, Coursera; April 2021
  https://www.coursera.org/account/accomplishments/verify/BNWW996BJFZP

## Projects

- **Smart System of Skin Cancer Classification using Deep Learning**
  Developed a GUI application using a trained model for classifying skin lesions.
- **Full Stack Real-Time Chat System using Django Channels**
  Developed a full-stack real-time chat system to practice and enhance skills in WebSockets.
- **Vote Election Booth System**
  Created an e-voting system to solve traditional voting issues.
- **Desktop App for COVID-19 Tweets**
  Built an app to search and retrieve tweets using Twitter APIs.
- **Dynamic Crawling Engine**
  Created a dynamic engine for data scraping using Django.
- **Smart Home Automation System**
  Built a home automation and security system using 1Sheeld and various sensors.

## Courses & Trainings

- Embedded System Diploma, Artronix Company: Cairo; From June To Septemper 2020
- Python Machine Learning Diploma, Artronix Company: Cairo; From June To August 2020
- Online Python Django Course, YouTube Channel; October 2022
  https://youtube.com/@traversymedia
- Online Python Django Web Framework Course, YouTube Channel; April 2022
  https://youtube.com/@freecodecamp
- Online Django Tutorial, YouTube Channel; November 2023
  https://youtube.com/@abdelrahmangamal
- Online Python Back-end Web Development Course ( with Django), YouTube Channel; June 2024
  https://youtube.com/@freecodecamp

## Languages

- Arabic : Native Speaker
- English : B1

## Personal Skills

- Proven ability to work in diverse environments and deliver efficient results
- Coordinate with internal teams to understand user requirements and provide technical solutions
- Working closely with other members of the development team, as well as customers or clients, in order to ensure that applications are developed according to specifications
- Assisting senior developers in mentoring junior staff members
- Excellent problem solving and communication abilities, in order to be able to solve complex problems that may arise during the development process
- The ability to work independently as well as part of a team

## Reference & Last Update

- Available under request & Last Update in July 2024