Walid Rehamnia

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SUMMARY

Django developer/Python developer as well as Machine Learning engineer, demonstrating success at Rym Services (Wajeez, DZTenders, Kawarir), and during internships. Holds a First Honor Master's Degree in Information Systems & AI from Badji Mokhtar Annaba University. Experienced Freelancer with notable projects at Khamsat, Era-Soft, and more.

PROFESSIONAL EXPERIENCE

RymServices Express (Wajeez, DZTenders, Kawarir), Algeria   Dec 2021 – Mar 2023, Algeria
Intermediate Django Developer

- Co-responsible for DZTENDERS & KAWARIR APIs.

- Managed and maintained API infrastructure and consistency.

- Developed and deployed Python scripts for backend features, resulting in improvement in database query efficiency and significant reduction in API response time, enhancing overall system performance and scalability.

- setting rigorous testing protocols to ensure API reliability.

- Employed DevOps practices for streamlined deployment and maintenance.

- Proficient in Linux, Git, and RESTful API design.

- Managed databases for efficient data storage and retrieval.

- Adopted with Agile scrum/kanban methodologies.

- Sustained 95% on-time completion rate for software delivery by effective team management and work balance.
- Developed a custom text extraction microservice based on ML and NLP techniques that surpasses the existing one by about 80% in response time, and provided at least 50% of content relevance.
- Position acquired skills: Python, Backend development, Django, REST APIs, SQL, Linux, Git, MySQL database, third party APIs for payment… Communication skills, collaboration, teamwork, agile, automation, clean code, high quality solutions, testing, scripting, Machine Learning…

Automation Test Engineer Intern

- Developed 100% automated tests using Python/selenium/Appium… for their software.

Khamsat, Online   Dec 2020 – Apr 2022
Freelance Full-Stack Developer
- Started a freelance career on khamsat in 2020, specializing in Java and Python development.
- Achieved "Active Seller" status by delivering multiple products with 100% ratings and positive feedback.
- Delivered Many managements and complex automation software's (Bots with controllable UIs) with fully satisfaction (100%)
- Visit profile: https://khamsat.com/user/yprogrammer
- Position acquired skills: Python, Java, UI, frontend, SQL, Git, MySQL/Postgres database, Communication skills, collaboration, teamwork, agile, testing, agile, automation, selenium, captcha bypass…

Digital Link Algérie, Algeria   Mar 2021 – May 2021
Mobile App Developer Intern
- Completed a 3-month internship at Digital Link Algérie, focusing on Flutter mobile development.
- Developed a Clocking System project using Flutter, Python, Flask-API, and MYSQL database, aimed at providing innovative solutions for companies' needs.
- Applied skills in Flutter framework to create efficient and user-friendly mobile applications.
- Collaborated with team members to design and implement features for the Clocking System project.
- Gained hands-on experience in mobile app development and backend integration during the internship period.

PROJECTS (Popular)

ONA ANNABA, Algeria   Mar 2023 Now
National Sanitation Office — https://ona.era-soft.com/
- Designed, Developed, and maintained the backend infrastructure of the project, leveraging the Django framework, python, REST APIs, databases, and Python programming language.
- Leveraging DevOps practices to ensure seamless deployment and continuous integration of the software system.
- Employed problem-solving skills and architectural expertise to design scalable and efficient solutions.
- Collaborated with stakeholders to define project requirements and translate them into technical specifications.
- Provided ongoing support and maintenance for the deployed system, ensuring optimal performance and reliability.
- Communicated project progress and updates effectively to clients, fostering strong working relationships and client satisfaction.

Weather forecasting system, Algeria   Jun 2023
Labged Rsearch Laboratory — https://www.labged.net/
- Developed a novel approach utilizing a modified Particle Swarm Optimization (PSO) algorithm to enhance the accuracy of Long Short-Term Memory (LSTM) models for short-term temperature forecasting.
- Applied Transfer Learning techniques to adapt the optimized model from the Annaba to Valencia region, addressing data scarcity challenges.
- Conducted extensive data analysis and experimentation on machine learning techniques to validate proposed method.

- Demonstrated superiority of the model with a Mean Absolute Error (MAE) of 1.15 (97%) on the NASA POWER project dataset.
- Implications extend to various fields including weather forecasting, healthcare, agriculture, and energy management.

NearBus, Algeria   Jan 2023

Near Bus startup — https://play.google.com/store/apps/details?id=com.nearbus.nearbus

[almost same description as ONA ANNABA project]

Fellahy, Algeria   Mar 2023

Fellahy Startup

[almost same description as ONA ANNABA project]

Custom Text Extraction Service, Algeria   June 2022

For DZTenders company — https://www.dztenders.com/en/

Built a service from coding to production stage as docker image in the company server, by leveraging the different NLP and Computer Vision techniques I built a custom text extraction system that respond to the specific requirement of the company with quality and time improvements comparatively with the old standard solutions.

Intelligent Quranic researcher, Algeria   Dec 2022

Self — https://github.com/walid-rehamnia/Intelligent_Quaranic_Searcher

- Developed a similarity search tool utilizing NLP techniques for finding similar words or phrases within a given text.
- Applying web mining strategies to gather relevant data for training embedding algorithms.
- Utilized Python and Django frameworks to build the backend infrastructure for the application.
- Integrated custom-trained embedding algorithms such as FastText and Doc2Vec to enhance search accuracy.
- Designed and implemented APIs for seamless integration with frontend components.
- Applied problem-solving skills to optimize performance and ensure efficient functionality.
- Created an intuitive frontend interface for users to interact with the search tool effectively.

MechaniCT, Algeria   Fev 2021

Bachelor project — https://github.com/walid-rehamnia/Mechanict-Serious-Game

- Led the designing and development of a 3D serious game aimed at teaching computational thinking skills.
- Created an immersive environment within an interactive mechanic workshop, utilizing C#, Unity, and graphic design.
- Provided adaptive difficulty levels using AI to tailor challenges to player skill levels.
- Integrated databases and Firebase for efficient data management and real-time synchronization.
- Incorporated machine learning techniques to enhance gameplay and provide personalized experiences for players.
- This project was the winner of the **Appchallenge** for Best Bachelor project.

EDUCATION

Badji Mokhtar University, Algeria   Jul 2023
Master of Computer science — Information system and Decision making (Machine Learning)
- Awards: 5 Stars student certificate, 1st honour student in the whole Faculty of Technology.
- Completed Machine learning research project with corresponding article, and contributed to 3 startup graduation projects.

- Acquired skills: Python, NodeJS, jQuery, Front end development, research, knowledge graphs, XML, SOAP/REST APIs, Web mining, Data mining, data analysis, Machine learning, information theory, English language, Algorithms and data structure, APIs, SQL, Linux, Git, MySQL/Oracle/Postgres SQL databases, NoSQL, Firebase, Flutter, Java, OOP… Communication skills, collaboration, teamwork, clean code, testing, scripting …

Badji Mokhtar University, Algeria   Jul 2021
Bachelors of Computer science — Information systems & IT
- Awards: First honour student, won in **Appchallenge** (Best Bachelor project competition).
- Completed 2 internships, and several successfully projects.

- Completed 2 Bachelor's projects (Clocking system + MechaniCT)

CERTIFICATES

Fundamentals of Deep Learning | NVIDIA Deep Learning institute | Nov 2022
Five stars student | Badji Mokhtar University | Jun 2023
EF SET English certificate | EF SET | Jan 2023

CERTIFICATES

Python, Backend Development, Django, Machine Learning, PyTorch, TensorFlow, databases, SQL, Java Script, problem-solving, Selenium, Appium, HTML, CSS, XML, REST APIs, Firebase, Flutter, java, Oracle, Postgres, MYSQL, Flask, Automation, Php, jQuery, Bash scripting, Troubleshooting, NoSQL, FASTAPI, GCP, Debugging, web scrapping, DevOps (Git, Linux, Cloud, Docker, Tests …), CI/CD, Team work, Growth Mindset, Flexibility, Communication, Documentation, Jira, agile, scrum, kanban…