OUSSAMA SEFFAI

Software engineer

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Summary

Backend Developer with experience in building scalable **REST APIs using Node.js and Express.js**. Proficient in **JavaScript** and skilled in developing complex back-end solutions for various applications. Familiar with data analysis, descriptive statistics, and experienced in using **Python for Machine Learning and Data Science**. Passionate about exploring new technologies and committed to delivering solutions that exceed expectations.

Experience

Legal Doctrine   **April 2022 − current**

Software engineering "Back-end mainly"

- Developed and integrated robust and high-performance internal applications using primarily **Express.js**, with a focus on enhancing code readability and maintainability.
- Ensured the quality of the code by following test-driven development practices and closely collaborating with the DevOps team to set up comprehensive testing and continuous integration (CI) pipelines. Utilized industry-standard tools such as **Jest and GitLab Runner** to ensure smooth and error-free deployments.
- Demonstrated expertise in containerization by developing and shipping applications through **Docker**, gaining proficiency in containerization concepts and process management using **PM2**.
- Designed and managed MongoDB databases effectively by creating database schemas and collections, and performing CRUD (Create, Read, Update, Delete) operations on data. Proficient in working with both SQL and NoSQL databases, including **MongoDB**.
- Implemented **Redis** as a caching layer for high-traffic applications, significantly improving the performance of the applications by reducing the load on the database.
- Utilized query optimization, backup, and recovery operations to enhance the performance and availability of MongoDB databases, and successfully executed complex database migrations.

TFN, Inc   **December 2020 − April 2022**

Data science user Part-time (remotely)   *Atlanta, GA*

- Employed AI tools and harnessed the prowess of Pandas and other cutting-edge data science frameworks to facilitate data analysis and processing. Engineered machine learning applications by leveraging the visualization capabilities of Dash/Plotly and Streamlit development frameworks.

Projects

Server-side app project | *NodeJs, ExpressJs Docker, Nginx*   **January 2022**

- Maintaining and writing code of server-side of a platform using **NodeJS** and handling business logic to deliver the optimum robust scalable code

Eclectic machine learning projects | *Python, Tensorflow, Pandas, other ML and data visualization packages ...*

- Utilized the Huggingface library to implement a transformers pipeline for NLP tasks, such as creating chatbots and analyzing documents.
- Generated data reports and visualized data using Seaborn, highlighting insights for further analysis.
- Developed a machine learning model to extract valuable insights from data using Spacy for text processing and Sklearn for modeling.
- Leveraged APIs to extract data from Yahoo Finance, utilized Plotly to create visualizations, and built an LSTM model to predict future stock prices.

Technical Skills

Languages Proficient in Python and JavaScript, with experience in building REST APIs using ExpressJS and NodeJS, as well as working with modern front-end frameworks such as React for building high-quality web applications.

Developer Tools:Highly skilled in using industry-standard tools such as VS Code, Google Colab Platform, and anaconda tools, as well as version control systems like Git for collaborating with teams and managing project changes.

Technologies/Frameworks: Experienced in working with popular machine learning libraries such as Tensorflow, Sklearn, and Huggingface for developing robust and scalable machine learning models. Additionally, proficient in using GitHub for sharing and collaborating on code with peers, as well as utilizing containerization technologies such as Docker and Docker-compose for deploying and managing applications. Possesses a strong understanding of web development technologies such as HTML, CSS, and React, as well as server-side technologies like Nginx, ExpressJS, MongoDB, and Redis for building complex web applications.

Education

UMBB University   **Sep. 2015 – May 2017**

Master's degree in automation: Faculty of hydrocarbon and chemistry .

Final project: Solving industrial regression problem using neural networks optimized by ABC algorithm

UMBB University   **Sep. 2012 – May 2015**

Bachelor's degree in automation: Faculty of hydrocarbon and chemistry.

Baccalaureate's diploma in mathematical studies with honors   **Juin. 2012**

Languages

Arabic: native
English: advanced
French: intermediate

Leadership / Extracurricular

National military service   **summer 2018 – May 2019**

officer
  * Confident, articulate, and possessor of an initiative to take the right decisions and an ability to work under pressure due to previous experience as an Officer in the Army.