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Mashate Ayoub

Full-stack Java/JEE Developer

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Education

Faculty of Science and Technology **Beni Mellal** **September 2021 – June 2023**
Master's in Business Intelligence (BI)

- **Courses:** Algorithm Design and Analysis, Operating Systems, Object-Oriented Design and Development, Concepts and Database Management Systems, Data Exploration and Analysis, Machine Learning, Predictive Analysis, Data Visualization.

Faculty of Science and Technology **Beni Mellal** **September 2017 – June 2021**
Bachelor of Science and Technology in Computer Science

- **Courses:** Web Programming, Object-Oriented Design and Development, Concepts and Database Management Systems, Software Engineering, Networks.

Professional Experience

Full-stack Java/J2EE Developer **Electric-It Services/TGCC, Casablanca** **August 2023 – February 2024**

- Created and developed the company's internal applications and platforms **(Java 8/11, Primefaces, JSF, Hibernate, and Spring)**; Assisted in deploying, migrating, and configuring new platforms; Tracked and fixed bugs; Refactored the code to improve the efficiency and maintainability of these platforms.

Projects

Academic Projects

- **Modeling and Analysis of a Cardiographic Teletracking System using Petri Nets (Master's Thesis):** Used Petri Nets to model, analyze, and optimize technical systems, with a focus on the cardiographic teletracking system.
- **Covoit'ici:** Developed a web-based carpooling application using React, JAX-RS (J2EE), Tailwind CSS, and MySQL. The application allows users to browse and offer carpooling as passengers or drivers, as well as manage these offers.
- **Frequent Itemset Mining and Association Rule Mining with DECLAT Algorithm (Data Mining):** Implemented the DECLAT algorithm for generating association rules and frequent itemsets using Python and applied it to predict diabetes based on discovered association rules.
- **Hotel Recommendation System (Thesis):** Developed a hotel recommendation system in Python (Flask, Pandas, Numpy, Scikit-learn) using two recommendation approaches (collaborative filtering and content-based filtering).
- **Data Warehousing:** Implemented and populated a data warehouse from the AdventureWorks database to generate financial reports (Microsoft BI).

Languages and Technologies

- **Programming Languages:** Python, Java, C, JavaScript, SQL.
- **Databases:** MySQL, MSSQL, MongoDB.
- **Technologies:** Bootstrap/TailwindCSS, NodeJs, Angular, ExpressJs, JEE/JSF(Primefaces)/Hibernate, Spring/SpringBoot, Git/Github, Linux(Ubuntu).
- **Microsoft BI:** Power BI, Excel, SSAS, SSIS, SQL Server.
- **Data Science and Machine Learning:** OpenCV, Pytorch, TensorFlow, Matplotlib, IBM SPSS.
- **Project Management and Design:** Agile, Scrum, UML.

Additional Experience and Achievements

- Certified in **Backend Development and APIs, Power BI and DAX Formulas, Python for Data Analysis.**
- Graphic Designer and Organizer in the **Computer Science Club** at the Faculty of Science and Technology.

Languages

- **English:** B2 (Intermediate - Advanced level).
- **French:** B2 (Intermediate - Advanced level).