AHMED YASSINE SEBLAOUI

Entry-level Software Developer

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PRESENTATION

Results-driven software developer junior skilled in full-stack development, specializing in the MERN stack (React, Node.js), Django, and RESTful API design. Leverages expertise in software architecture to build scalable solutions that boost operational efficiency and decision-making. Proficient in Git for version control, Docker for containerization, and CI/CD pipelines, with a strong commitment to test-driven development and agile methodologies.

EDUCATION

The Higher Institute of Information Technologies and Communication   Borj Cedria, Tunisia
Bachelor in Computer Science, Software engineering with Excellent Mention   *Sept. 2021 – May 2024*

EXPERIENCE

Amen Bank   Feb 2024 – May 2024
Data Engineering and Software Intern (PFE)   *Mohammed V Street, Tunisia*

- Designed and implemented a strategic decision-support solution to enhance the operational efficiency of Amen Bank's branch network.
- Addressed complex data analysis needs; developed a full-stack web application with the MERN stack (MongoDB, Express.js, React, Node.js) and PostgreSQL, enabling analysts to track customer purchases 30% faster.
- Built a centralized Data Warehouse utilizing Apache Airflow for ETL processes, followed by the creation of data marts and OLAP cubes to support advanced analytics and reporting.
- Resolved unclear data insights for branch managers; created dynamic Power BI dashboards for data visualization, empowering branch managers to make data-driven decisions with 15% improved accuracy.
- Lacked dedicated server infrastructure; repurposed a personal PC into a local server using Linux and Apache, ensuring 99.9% uptime for critical business data retrieval.
- Needed targeted customer strategies; developed a client segmentation model using scikit-learn's tree-based machine learning algorithms (Decision Trees, Random Forest), increasing campaign effectiveness by 18%.

Tunisie Telecom   Jun 2023 – Aug 2023
Software Development Intern (PFA)   *Berges de Lac, Tunisia*

- Designed and developed a web-based application using React and Django to improve the management of GSM and network operations for telecom field technicians.
- Faced slow data access; integrated the application with a PostgreSQL backend via RESTful APIs built with Django REST Framework, improving real-time data retrieval speed by 35%.
- Lacked visibility into network operations; developed an interactive dashboard using React and Chart.js to visualize real-time utility pole data and monitor 2G, 3G, 4G, 5G, and GSM networks, enhancing operational oversight.

PROJECTS

Chatbot Forex-Crypto Project | *Machine Learning (NLP) and Full-Stack Development Project*

- Developed an AI-powered chatbot for forex and cryptocurrency queries, integrating a **DistilBERT** model for intent classification with 99% accuracy on FAQ intents, using **PyTorch** and **transformers**.
- Built a **Flask**-based backend API to serve chatbot responses, implementing context-aware conversations and **SQLite** database integration for conversation history and feedback logging.
- Designed a responsive **Django** frontend with user authentication (registration, login, password reset via email), a Bootstrap-styled chat interface, and a dark mode toggle, ensuring mobile-friendliness.
- Containerized the application using **Docker**, creating separate images for training, backend, and frontend, and orchestrated services with **Docker Compose** for streamlined development and deployment.

Sales Forecasting Project | *Data science, Time Series Forecasting and Web Scraping*

- Developed a time series forecasting model using Prophet model to predict product family sales trends.
- Aggregated and processed daily sales data with advanced Python libraries (pandas, NumPy) to ensure data readiness.
- Evaluated model performance using statistical metrics, achieving reliable predictions.
- Created insightful visualizations with Matplotlib and Seaborn, aiding decision-making.

TECHNICAL SKILLS

Languages:Python,Bash(linux),SQL,JavaScript,HTML/CSS
Frameworks:React,Node.js,ExpressJS,Django
Tools & Methodologies::Git & Github,Docker,AWS,JupyterNotebook Ubuntu,PowerBI,Hadoop,Excel,PowerPoint,Agile,Scrum
Soft skills: Communication, Collaboration,Multilingual,Creativity

CERTIFICATIONS

Big Data Engineer Certification,**IBM**
SQL Certification,**365 Data Science**
Institut professionnal Linux LPCI,**Kodekloud**
Cybersecurity Fundamentals,**IBM**
TCF B2 in french language,**Institut Française de Tunisie**