

Sola Achref



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SUMMARY

Software Engineer dedicated to crafting elegant solutions that bridge technology and user needs. Proficient in full-stack development with expertise in scalable architectures and clean code principles.

SKILLS

- **Programming:** Python, SQL, Java, JavaScript, TypeScript
- **Frameworks & Libraries:** React, Node.js, Express, Flask, Pygame
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Cloud & DevOps:** AWS (S3,EC2), Azure, Docker, Jenkins, Linux
- **Visualization:** Power BI, Matplotlib, Seaborn
- **ML & AI:** Scikit-learn, PyTorch, TensorFlow
- **Collaboration Tools:** Git, Jira, Agile/Scrum

PROFESSIONAL EXPERIENCE

Tunisian United Solution - Sousse | Software & Data Engineer Intern

Feb 2025 - Jun 2025

Project : Customer Management Module Integration

- Integrated a new customer management module into the company's ERP system to improve client data handling and service tracking.
- Developed backend services in PHP and connected them with a MySQL database for secure and scalable storage.
- Built interactive dashboards with React.js and Highcharts to display customer KPIs, account status, and activity trends.
- Deployed the solution on cloud-based Linux VMs using Docker for portability and scalability.
- Added AI features with churn prediction (92% accuracy) and customer segmentation, reducing churn risk by 15%.
- Collaborated with a ERP Technical Consultant and the developpement team to design and integrate the needed functionalities

Lab-IT – Sousse | Software Engineer Intern

Jun 2024 - Aout 2024

Project: Task & Resource Management Platform

- Developed a full-stack web application to centralize task assignment, progress tracking, and resource allocation for internal teams.
- Built a REST API with Node.js & Express to manage projects, users, and reporting data.
- Designed a React.js frontend with real-time dashboards to handle high user interactions and large task datasets.
- Containerized the application with Docker and implemented CI/CD pipelines in Jenkins, automating builds, testing, and deployments.
- Reduced manual coordination efforts and improved project delivery speed by 30%.

VISTO – Sousse | Software Developer Intern

Jun 2023 - Jul 2023

Project: Travel Agency Web Application

- Developed full-stack web application for travel agency with destination showcase and booking management.
- Built Flask backend with PostgreSQL database handling reservations and client data.
- Implemented an admin panel for managing destinations, customer data, and booking records.
- Created React.js frontend with destination search, filtering, and dynamic tour packages.
- Integrated Chart.js dashboards tracking bookings and customer activity trends.
- Automated email confirmations and reporting, reducing manual work by 50%.

ACADEMIC PROJECTS

Stock Oversight

Inventory management system tracking 1000+ products with real-time updates, order processing, and Stripe payment integration.

- **Frontend:** React.js with Context API for state management, dynamic stock updates, and Stripe payment integration
- **Backend:** Node.js/Express.js ,REST API with MongoDB for inventory data storage and user authentication

Key words: React.js, Context API, JavaScript (ES6+), Node.js, Express.js, REST API, MongoDB, JWT,Stripe API, Docker

TaskFlow – Team Task Management System

Team task management system to assign tasks, monitor deadlines, and automate reminders, improving collaboration and project efficiency.

- **Frontend:** React.js with Context API for state management and real-time task updates.
- **Backend:** Node.js/Express.js, REST API with PostgreSQL for task storage and JWT authentication.

Key words: React.js, Context API, JavaScript (ES6+), Node.js, Express.js, REST API, PostgreSQL, JWT, Docker, CI/CD

Grammar and Spelling Correction Web App

Developed grammar correction web app using fine-tuned T5 model achieving 94% accuracy with AdamW optimizer for academic writing.

- **Frontend:** React based frontend ensured seamless user interaction and optimized performance.
- **Backend:** developed with flask, handled real-time inference

Key words: Python, PyTorch, HuggingFace, Transformers, Flask, React

Fuel Price Analytics Dashboard

Built a dynamic dashboard analyzing fuel price trends across 5 regions with 15 KPIs and 20 visualizations. Processed data to enable time- based insights and real-time monitoring.

Key words: PowerBI/Desktop

EDUCATION

Polytechnic School, Sousse

Sep 2022 - Jul 2025

- Engineering Degree in Computer Science

Higher Institute of Applied Sciences and Technology, Sousse

Sep 2019 - Jul 2022

- Bachelor's Degree in Computer Science

CERTIFICATIONS

- IT Specialist – Python | Certiport
- IT Specialist – Databases | Certiport
- Databricks Lakehouse Fundamentals | Databricks
- Oracle Cloud Infrastructure AI Foundations Associate | Oracle
- DELF – B2 | France Éducation International
- TOEIC – B2 | ETS (Educational Testing Service)

LANGUAGES

English - French - Arabic