



ZINEB SARAOU

INFORMATION SYSTEM ENGINEER
DATA SCIENTIST

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EDUCATION

MASTER'S DEGREE IN BIG DATA & IOT

National Institute of Posts and Telecommunications

2024 - Currently

PROFESSIONAL BACHELOR'S DEGREE IN SOFTWARE AND INFORMATION SYSTEMS ENGINEERING

Higher School of Technology of Essaouira

2023 - 2024

UNIVERSITY DIPLOMA OF TECHNOLOGY IN BUSINESS INTELLIGENCE AND DATA SCIENCE

Higher School of Technology of Essaouira

2021 - 2023

BACCALAUREATE DIPLOMA

Akensous High School Essaouira

2020 - 2021

International Baccalaureate in Physical Sciences (French Option)

Grade : Very Good

SKILLS

Programming : C , Python , Java .

Web Dev : HTML , CSS , JS , Xml , Node.js
React.js Bootstrap.

Framework : Flask , Django , Express.js
J2EE Spring Boot , Scrapy.

Databases : SQL , Mysql , Oracle , MongoDB
PL/SQL.

Business Intelligence : Data Warehouse,
Pentaho Data Integration.

Data Analysis & Science : Machine learning
Data Mining , Web Scraping.

Design & Modeling : UML , Merise .

System & Network : System Administration
Network Administration.

Office & Project Tools : Microsoft Office
(Word , Excel , PowerPoint) , Microsoft
Project

EXPERIENCE

PLATFORM DEVELOPMENT INTERN | APR 2024 - JUN 2024

Alidantek (Marrakech Branch, Canada)

- Designed and developed a personalized educational platform tailored to tracking and evaluating the progress of both students and professors in real time.
- Integrated ChatGPT Turbo 5 to support content personalization and performance feedback features.
- Utilized technologies including HTML5, CSS3, Bootstrap JavaScript, Python (Flask), MySQL, and ChatGPT Turbo 5.

DATA MANAGEMENT & APP DEV INTERN | APR 2023 - JUN 2023

National Directorate of Meteorology - Essaouira

- Developed a desktop multitasking administrative application focused on data management, designed to digitize paper records and store them in a centralized database.
- External Weather API (for real-time meteorological chart integration)
- Utilized HTML5, CSS3, Bootstrap , JavaScript , Flask (Python) MySQL.

FRONT-END DEVELOPMENT INTERN | JUN 2022 - JUL 2022

Provincial Directorate of Agriculture - Essaouira

- Developed a static informational website inspired by the organization's main portal .
- Focused on clean, responsive UI design using HTML5, CSS3, and JavaScript to ensure accessibility and modern layout.
- Used Python (Flask) to serve the static pages and manage routing .

TECHCAMP MEMBER | FEB 2022 - MAR 2022

Techcamp - Ifrane

- Participated in a multidisciplinary workshop focused on leveraging technology to identify and preserve cultural heritage.
- Engaged in brainstorming sessions, problem-solving activities, and team-based innovation challenges.
- Engaged in hands-on training sessions covering 3D modeling with CyArk, digital storytelling, copyright and intellectual property, and design thinking methodologies.

CERTIFICATES

TechCamp 2022

Organized by the TechCamp Team, U.S. Embassy & High Atlas Foundation

Erasmus+ Youthpass – European Solidarity Corps

M.E.D.A. Program (Multimedia, Education, Development, Inclusion, Autonomy) , **France**
Recognized for volunteer engagement connecting technology with sustainable community development.

CI2RC Hackathon – Smart Mobility First Prize Winner

Developed and pitched an innovative mobility solution in a competitive tech innovation event.

LANGUAGES

English: Fluent.

French: Professional Proficiency.

Arabic: Native Speaker.

PROFESSIONAL QUALITIES

Initiative-Driven

Technically Versatile

Curious & Self-Learner

Cross-Cultural & Collaborative

Impact-Oriented

Organized & Structured

Problem Solver

Adaptable

ERASMUS+ VOLUNTEER | JUL 2022 – AUG 2022

erasmus+ (M.E.D.A. Program) – France

- Participated in a European cultural and social volunteering program promoting diversity, inclusion, and community engagement.
- Engaged in intercultural dialogue, community-building activities, and collaborative workshops with international youth.
- Strengthened communication, adaptability, and teamwork skills in a multicultural environment.

EXPERIENCE

ADVANCED E-COMMERCE WEB APPLICATION

- Designed and developed a scalable and modular e-commerce platform.
- Implemented product browsing, user authentication, cart, and checkout functionalities.
- Developed using Django, Python, HTML5, CSS3, JavaScript Bootstrap, and SQLite.

HEART DISEASE & EMOTION DETECTION WEB APP

- Dual-function web application that predicts the risk of heart disease and detects human emotions from facial images.
- Implemented a logistic regression model for heart disease risk prediction and a CNN (Convolutional Neural Network) for emotion detection.
- Developed using Flask, Python, HTML5, CSS3, Scrapy and Keras.

QUIZ MANAGEMENT WEB APPLICATION

- Created an interactive platform for managing and taking quizzes.
- Developed RESTful APIs and real-time features with role-based access (students/admins).
- Technologies used: React, Node.js, Express.js, MongoDB, and Bootstrap.