

Firdaous BOULBEN

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PROFILE

Motivated by a strong interest in advancing research at the intersection of Artificial Intelligence, Data Science, and Cybersecurity. I bring a solid background in Full Stack Development and technical project management, and I am eager to contribute to cutting-edge research within a dynamic academic environment.

EDUCATION

Master's degree in IT Security and Big Data
Faculty of Science and Technology, Tangier - Morocco
2023 - 2025

Bachelor's degree in Computer Engineering
Faculty of Science and Technology, Tangier - Morocco
2020 – 2023

Baccalaureate in Mathematical Sciences B (French option)
Moulay Youssef Technical High School, Tangier - Morocco
2019 – 2020

SKILLS

Programming: C, C++, Java, Python, Bash
Web Development: HTML, CSS, JavaScript, PHP
Frameworks: React, Angular, Spring Boot, Flask, Django
Databases: MySQL, MongoDB, PostgreSQL, SQL Server, Redis
Big Data & Analytics: Hadoop, Spark, Kafka, Pandas, NumPy, Matplotlib, Seaborn
AI & Machine Learning: TensorFlow, PyTorch, scikit-learn, NLP, RAG, LLMs
Cryptography: RSA, El Gamal, SSL/TLS, Hashing (MD5, SHA)
Penetration Testing & Ethical Hacking: Kali Linux, Metasploit, Nmap, Wireshark, Social Engineering

LANGUAGES

English: Fluent **Spanish:** Intermediate
French: Fluent **Turkish:** Good
Arabic: Fluent **Russian:** Basic

CERTIFICATES

Google Cybersecurity Professional Certificate - Coursera
Foundation Level Threat Intelligence Analyst – arcX
Data Science Tools – Cognitive Class
EFSET English Certificate (C1 Advanced) - EF Standard English Test

PROFESSIONAL EXPERIENCE

AI Developer

LIADtech, Casablanca - Morocco 10/2025 – 01/2026

- Development of a context-aware document retrieval system with a custom attention-based relevance mechanism.
- Development of an AI-powered identity authentication and verification system leveraging behavioral and biometric analysis.
- Development of a SaaS social media management platform for agencies.

Software Developer

Circet Morocco, Casablanca - Morocco 02/2025 – 07/2025

Design and development of an AI-assisted technical intervention dispatch automation system based on a microservices architecture.

Full Stack Developer

Digital Future s.a.r.l, Tangier - Morocco 09/2024 – 01/2025

- Design and development of a web application for clinic management.
- Design and development of a web application for invoice management.
- Creation of the official website for the company Tareb.

Full Stack Developer

Digital Future s.a.r.l, Tangier - Morocco 04/2023 – 09/2023

- Design and development of a web application for school management.
- Design and development of a web application for fleet management for the transport company HOSA Trans.

ACADEMIC PROJECTS

Intelligent cybersecurity chatbot based on RAG and LLM

Tools used: LangChain, Hugging Face Transformers, Elasticsearch, Flask, Spring Boot, MongoDB, Angular, Tailwind, Docker

Malware detection system based on signatures and image analysis

Tools used: OpenCV, Flask, Scikit-learn, Angular, Tailwind

Web application for real-time customer churn analysis and prediction for a telecom operator

Tools used: Python, Apache Kafka Streams, Apache Spark, Flask, MongoDB,

Business intelligence solution for analyzing academic performance indicators at FST Tangier

Tools used: Pentaho, Tableau, Microsoft BI Suite, OLAP, ETL

Web application for car rental agency management

Tools used: Spring Boot, Flask, MongoDB, Angular, Tailwind, JWT, 2FA

Desktop application for order and delivery management

Tools used: Java (JavaFX), JDBC, MySQL, Scene Builder, IntelliJ IDEA

Mobile chatbot app for emotional well-being

Tools used: React Native, Tailwind, Node.js, REST API, Google Gemini API

2D Platformer Puzzle video game called PICO PARK

Tools used: C++, Cocos2D game engine, Visual Studio