# ANASS IDBELLA

State Software Engineer, AI & Computer Science

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📍 Marrakech

## EDUCATION

**MASTER'S IN ARTIFICIAL INTELLIGENCE**
**Universite Côte d'Azure, Nice**
2024-2025

**ENGINEERING DIPLOMA, COMPUTER SCIENCE & NETWORKS**
**EMSI, Marrakech**
2022-2025

**TECHNICIAN'S CERTIFICATE (BTS), INFORMATION SYSTEMS DEVELOPMENT**
**Lycee Lissane Ed-Dine Ibnou Al Khatib, Laayoune**
2020-2022

## SKILLS

- **Languages & Backend:** Python, Java, C++, C#, JavaScript, TypeScript, SQL, Spring Boot, ASP.NET, Django, Node.js

- **AI & MLOps:** Machine Learning, Deep Learning, NLP, Computer Vision, Retrieval-Augmented Generation (RAG), LangChain, HuggingFace, FAISS, Prompt Engineering, TensorFlow, PySpark, Airflow, MLflow, Docker, ONNX

- **Databases:** PostgreSQL, MySQL, MongoDB, SQLite

- **Frontend & Mobile:** ReactJS, Angular, Tailwind CSS, Flutter

- **Tools & Methods:** Git, Azure DevOps, UML, Kanban, Agile Collaboration

## LANGUAGES

- Arabic: Native
- French: Advanced
- English: Advanced

## INTERESTS

- Programming
- Football
- Music

## SUMMARY

A State Engineer in Computer Science & Networks from EMSI Marrakech and a Master's degree holder in Artificial Intelligence from the University of Côte d'Azur. I am passionate about designing robust and intelligent software solutions, with hands-on experience in backend development, microservices architecture, and Machine Learning. Actively seeking my first professional opportunity to apply and grow my technical skills. Immediately available.

## PROFESSIONAL EXPERIENCE

### TekCircle (Rabat)                                    2025 - 6 Months
Software & AI Engineer Intern

- **Final Year Project:** Design of a PaaS fraud detection platform.
  - Designed and developed a "Privacy-First" solution, including a Java SDK (ONNX) and a microservices backend (Python, FastAPI).
  - Established a full MLOps pipeline using Airflow and MLflow to automate the model lifecycle.
- **Main Enterprise Project:** Development of "TekCircle," Morocco's first IT freelancer platform.
  - Contributed significantly to the full-stack development of the platform, creating distinct user systems for IT freelancers, recruiters, clients, and administrators.
  - Built the front-end using React 18 and the back-end with Express.js to manage projects and applications.

### Storeino (Agadir)                                    2024 - 2 Months
Client Support Intern

- Developed a multilingual chatbot using Python and Rasa, integrated with the Whisper API for voice recognition, to automate FAQ responses and improve user interaction.

### OCP Phosboukraa (Laâyoune)                           2023 - 1 month
Network Services Intern

- Built a camera management application and automated Excel reporting with Python and SQLite to enhance real-time security monitoring and reduce response delays.

### IFPS (Laâyoune)                                      2022 - 1 Month
Student Affairs Unit Intern

- Designed and developed a student management system using VB.NET and SQL Server to digitize and streamline previously manual administrative processes.

## PROJECTS

- **Automated Unit Testing System:** An application built with Spring Boot, Angular, and Gemini, designed to analyze source code, and automatically generate and execute unit tests.
- **Visual Recommendation API:** Developed an API using ResNet-50 for visual feature extraction and FAISS for high-speed similarity search in recommendation tasks.
- **Secure Password Manager:** Created a Java and Python application that uses OpenCV for secure authentication through facial recognition.
- **Document-based RAG Chatbot:** Built a Retrieval-Augmented Generation (RAG) chatbot using LangChain, FAISS, HuggingFace embeddings, and Ollama (Gemma) to enable interactive question-answering from provided documents.

## CERTIFICATIONS

- Building Scalable Java Microservices with Spring Boot and Spring Cloud (Google Cloud)
- Introduction to Cloud Computing (IBM)
- Introduction to DevOps (IBM)
- Introduction to Containers w/ Docker, Kubernetes & OpenShift (IBM)