



# INES BOUKHRIS

Software Engineering Student

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## 🎓 EDUCATION

**Software Engineering**, Higher Institute of Computer Science - ISI Ariana

2022 – present

**Bachelor's degree in Network and Computer Systems Engineering**, Higher Institute of Computer Science - ISI Ariana

2019 – 2022

## 💡 SKILLS

- Git, Jenkins, Docker, Ansible, Kubernetes, Sonarqube, Nexus, Terraform
- Java, C/C++, Python
- SpringBoot, Angular, Flutter
- Oracle, MongoDB, Mysql, PhpMyAdmin, Firebase
- Hadoop, Spark, Kafka
- Linux, RaspberryPi, Latex

## 📜 CERTIFICATES

**AWS Cloud Practitioner (CLF-02)** — 09/2024 | KodeKloud

**CDOSS Big Data Machine Learning with Apache Spark** — 03/2024 | CDOSS

**Microsoft Certified : Azure AI Fundamentals (AI 900)** — 02/2024 | Microsoft

**Microsoft Certified : Azure Data Fundamentals (DP 900)** — 01/2024 | Microsoft

## 👥 CLUB

**Member of Securinets ISI Club**, Junior Department

2019 – 2023

- Animation of computer security workshops for students.
- Organization of competitive events for juniors.

## 🎮 INTERESTS

Chess • Hiking • Astronomy

## 🌐 LANGUAGES

Arabic : Native • French : Fluent • English : Fluent

## 💼 PROFESSIONAL EXPERIENCE

**Summer Internship**, SFM Technologies

06/2024 – 08/2024

- **Development of a mobile application for optimizing electrical energy consumption in buildings.**

**Description:** • Encourages users to reduce energy consumption through rewards, challenges, and exclusive offers, making the app more interactive and motivating.

Technical environment : Flutter, Git

**Summer Internship**, Africom Services

07/2023 – 08/2023

- **Integration and Deployment of a web application**

**Description:** • Automating the deployment of a web application. • Development of an integration pipeline to create and publish a Docker image of the application.

Technical environment : Git, Docker, Jenkins, Ansible

**End of Studies Internship**, SFM Technologies

02/2022 – 05/2022

- **Implementation of a continuous integration and virtualization system**

**Description:** • Establish a comprehensive pipeline spanning code integration, build, testing, delivery, and continuous deployment. • Integrate it into the Qoentum platform and establish an environment conducive to continuous deployment.

Technical environment : Git, Jenkins, Docker, Sonarqube, Ansible, Kubernetes

## 📁 PROJECTS

**DevOps Project : CI/CD Pipeline**

- Designed and implemented a **Jenkins CI/CD pipeline** to automate the build, test, and deployment process.
- Integrated tools like **Maven** for compilation, **SonarQube** for static code analysis, **Trivy** for vulnerability scanning, and **Nexus** for artifact management.
- Automated containerization using **Docker**, infrastructure provisioning with **Terraform**, and deployment with **Ansible**.

**Artificial Intelligence Project: Neural Network for Diabetes Prediction**

- Built and trained a **Multi-Layer Perceptron** with optimization parameters.
- Performed data preprocessing, visualization and **model evaluation** through accuracy metrics, confusion matrices, and convergence analysis.
- Explored the impact of **learning rates** and iterations on model performance and applied **Self-Organizing Maps** for dimensionality reduction.

**Hackathon “Empowering ISI with AI”**

- Developing a chatbot to answer questions based on ISI internal documents using **RAG** and AI agents.

**Optimization of Neural Networks by Genetic Algorithms**

- Developed a neural network model architecture with customizable input, hidden, and output layers.
- Leveraged **NumPy** for numerical computations and **Scikit-learn** to evaluate the model performance using metrics like **Mean Squared Error**.
- Designed the project to experiment with different architectures and optimization techniques, enhancing understanding of deep learning concepts.

**Mobile Application : Notify**

- Development of an application with **Flutter**.
- Publication and creation of messages and categories from Teachers.
- Register students to categories and receive notifications when new posts are published.
- Using **Firebase** database to store posts, categories and registrations.

**E-commerce website : Joya**

- Backend development with **Spring Boot** via the integration of a **MySQL database**.
- Implementation of a rich and interactive user interface with **Angular**.