



GHLIB Roumaïssa

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SUMMARY

Fifth-year student at the **Higher National School of Computer Science (ESI)**, specializing in **Information Systems and Technologies**. I am passionate about **artificial intelligence**, **intelligent systems**, and **quantum computing**. Motivated by continuous learning, I have developed strong skills in programming and project management throughout my academic journey. Currently **interning at the LIST3N Laboratory (University of Technology of Troyes, France)**, I am working on the automatic design of **optimized quantum circuits** using **evolutionary algorithms**. I am seeking to pursue a **Ph.D.** related to quantum computing, optimization, or AI.

PROFESSIONAL EXPERIENCE

LIST3N Laboratory, University of Technology of Troyes | France

Sep 2025 – Present

Intern

Automatic design of **optimized quantum circuits** using **evolutionary algorithms** with **IBM's Qiskit, Python...**

- Development and implementation of a **multi-objective genetic algorithm** for optimizing quantum circuits dedicated to the **Flow Shop scheduling problem**.
- Evaluation of the performance of the generated circuits based on several metrics: fidelity, depth, number of quantum gates.

Company Hamoud-Boualem | Algeria

5 Sep 2023 - 4 Oct 2023

Intern

I developed a **web application for training management**, implementing a **REST API with Django**. I have in-depth knowledge of database modeling with technologies such as **PL/SQL**. As a full-stack developer during the internship, I used the following technologies: **Django, MySQL, Bootstrap, HTML, CSS**, and **JavaScript**.

KEY SKILLS

Technological Watch
Software Development
Adaptability

Ability to Work Under Pressure
Critical Thinking
Communication Skills

Teamwork
Proactive and Motivated
Organizational Skills

PROJECT EXPERIENCE

National School of Computer Science (ESI)

Sep. 2022 - Juin. 2024

Backend Developer

I was the lead **backend developer** in academic projects. The technologies used include **Django** and a **REST API**. I integrated a mapping feature into a real estate website and implemented secure user access management using a **MySQL database**. I also gained valuable expertise in web data extraction. By collaborating effectively with team members, I strengthened my skills in system development, documentation, and teamwork.

Detection of Heart Diseases and Diabetes using Machine Learning

Developed **detection models** using **Random Forest, XGBoost, logistic regression**, and **support vector machines**. I carried out data collection and preprocessing, data analysis, and evaluated model performance using precision, recall, and cross-validation. Improved the analysis of health data by exploring clinical datasets and analyzing the causes of diseases.

Project: Movie Recommendation System

A basic movie recommendation system that suggests films based on the user's preferences or watch history. It collects and preprocesses user data, then builds a recommendation model using techniques such as collaborative filtering or content-based filtering. Tools like Python, Pandas, and Scikit-learn were used for this purpose.

Graphic Designer and Front-End Developer for the Kafil El-Yatim Association

As a front-end developer, I led a project aimed at designing a unique website to help children in need. To do this, I used design tools such as Figma and Adobe XD, combining the following technologies: ReactJS, HTML, CSS, and JavaScript. I used React, a modern JavaScript library, to create a dynamic and responsive interface. My role involved designing and implementing the different functionalities of the application while ensuring a smooth and intuitive user experience. I also closely collaborated with the back-end development team to integrate the front-end features with the provided REST APIs.

EDUCATION**Higher School of Computer Science (ESI), Algiers**

(Sept. 2022 - Présent)

Higher School of Computer Science and Digital Technologies (ESTIN), Béjaïa

(Sept. 2020 - Juine 2022)

Baccalaureate (BAC) with High Honors

2020

CERTIFICATIONS**Udemy Certificate in Fundamentals of Data Science and Machine Learning****kaggle certificate in Machine learning****Deep Learning - Convolutional Neural Networks****Data Analytics with Power BI , Tableau and SQL****Kaggle certificate in Python****PROGRAMMING
LANGUAGES**

Java
C
Python
Assembleur
XML

WEB & FRONTEND

HTML
CSS
JavaScript

FRAMEWORKS

React (JavaScript)
Django (Python)
Nodejs

**SOFTWARE &
TOOLS**

Visual studio code
Eclipse
Android studio
Latex
Photoshop
Figma
pack adobe
Pack office
git /github

DATABASES

SQL(Mysql/Postgresql)
NOSQL(MongoDB)
Oracle

ERP

Odoo

CONCEPTION

UML
BPMN

CLUB ACTIVITIES**Member, Bytecraft Club**

(2021 - 2022)

LANGUAGES

Arabe
Native Language

Français
Fluent

Anglais
Fluent

Turkish
Beginner (A2)