

# BEN OMRANE CHAIMA

## SOFTWARE DEVELOPMENT ENGINEERING STUDENT

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bardo,tunis

### PROFILE

Final-year software engineering student at the Higher Institute of Computer Science of Ariana, seeking a 6-month end-of-studies internship starting January/February 2026. Passionate about Artificial Intelligence and software development, with hands-on experience in full-stack development, machine learning, deep learning, and embedded systems. Motivated to apply my academic knowledge and grow alongside experienced professionals.

### SKILLS

- **Software Development:** Java, C++, C, Python (NumPy, Matplotlib), HTML, CSS, JavaScript, TypeScript, Bootstrap, PHP
- **Mobile Development:** Flutter, Android
- **Frameworks & Technologies:** Angular, Spring Boot, Django
- **Artificial Intelligence:** Machine Learning, Deep Learning
- **Databases:** MySQL, SQLite, Firebase, MongoDB, Cassandra
- **Embedded Systems:** Arduino, ESP32, STM
- **Analysis & Design:** UML
- **Development Methodologies:** Agile, Scrum, Kanban, Scrumban

### PROFESSIONAL EXPERIENCE

#### Summer Internship – Full-Stack Developer | Headway CBS

Development of a full-stack web application for managing training and events using Angular, Spring Boot, and MySQL

Jun 2025 - Aug 2025

#### Summer Internship – Full-Stack Developer | Infraway

Design and development of a mobile application for the company's internal system using Flutter and a REST API.

Jun 2024 - Jul 2024

#### Final-Year Project – Full-Stack & AI | DataDolt

Development of an intelligent camera management system for exhibition spaces. The project consisted of building a complete web application using Django for both the frontend and backend, supported by an SQLite database. The system integrates real-time image processing with OpenCV to enable automated surveillance, visitor flow analysis, and event detection. A real-time administrative dashboard was implemented to manage camera configurations, monitor visual data, and provide continuous supervision of exhibition areas.

#### Summer Internship – Full-Stack Developer | Tunisian Cloud

Design and development of a library management dashboard using Angular, Bootstrap, Spring Boot, and MySQL.

Jul 2022 - Aug 2022

#### Summer Internship – Full-Stack Developer | SIGA

Design and development of a complaint management system using Angular, Spring Boot, and MySQL.

Jun 2022 - Jul 2022

#### Summer Internship – Full-Stack Developer | MED\_MEDIAWEB

Design and development of a gym website "PANDA" using HTML, CSS, JavaScript, and PHP.

Jul 2021 - Aug 2021

#### Summer Internship – Full-Stack Developer | TUNISIE TELECOM, BEN AROUS

Computer repair and Windows installation on company machines.

Jun 2021 - Jul 2021

### EDUCATION

#### Software Development Engineering – Higher Institute of Computer Science, Ariana

sep 2023 – present

#### Bachelor's Degree in Computer Science (GLSI) – Institute of Applied Languages & Computer Science, Béja

sep 2020 – jun 2023

#### Mathematics Baccalaureate – Bardo High School

sep 2019 – jun 2020

### CERTIFICATIONS

#### ATTESTATION EN AI-900: Microsoft Azure AI Fundamentals – Microsoft office

#### ATTESTATION EN Microsoft Excel (Office 2019) – Microsoft office

#### ATTESTATION DE PARTICIPATION EN UX/UI DESIGNER

#### ATTESTATION EN INTRODUCTION TO PROGRAMMING USING PYTHON – Microsoft office

#### ATTESTATION EN INTRODUCTION TO PROGRAMMING USING HTML AND CSS – Microsoft office

### ACADEMIC PROJECTS

#### Predictive Diabetes Analysis Web App (Python, Streamlit, ML)

Exploratory data analysis, supervised classification (Random Forest, SVM...), unsupervised clustering (K-Means, DBSCAN), and diabetes risk prediction through an interactive Streamlit interface.

#### AI-Powered Interactive Quiz Web/Mobile App (Flutter, Firebase, Python)

Cross-platform real-time quiz system with PIN-based sessions, scoring, timer, and leaderboard.

AI module (NLTK, TF-IDF, FastAPI) automatically generates quizzes from documents (PDF, DOCX, TXT) using NLP and concept extraction.

#### Researcher Management System with AI Module

Design and development of a complete web application for managing researchers and their publications using Angular, Spring Boot, and FastAPI. The system integrates advanced AI functionalities based on Transformer models from Hugging Face, enabling multilingual translation (French-English), automatic text summarization, and inappropriate content detection. It also includes an intelligent recommendation engine built with FAISS and SentenceTransformers to match researchers with relevant publications and collaborators. Additionally, an automated moderator validation module analyzes PDF CVs using NLP-based classification techniques to ensure profile consistency and reliability.

#### Expert System for Personalized Diet Plans

(Python, Experta, Tkinter)

Rule-based expert system providing dietary recommendations based on user's health profile and goals.

### LANGUAGES

ARABIC – FRENCH – ENGLISH – TURKISH