

# Farah GAIDA

Computer Science Engineering Student — Software & Data Engineering  
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## Summary

Final-year Computer Science Engineering student specializing in Software and Data Engineering, with a strong focus on Computer Vision and deep learning. Experienced in video analysis, CNN-based models, and real-time detection systems. Seeking a PFE internship in AI and Computer Vision to develop intelligent, real-world solutions.

## Experience

**IDEA Lab FSB — Computer Vision Intern** Jul–Aug 2025

Developed a deep learning system for **crowd abnormality detection** using CNN-based models. Built a cross-platform desktop app using Svelte, Flask, and Electron.

**STEG IT Center — Full Stack Developer Intern** Jul 2024

Designed and implemented a task management web app using React.js and Express.js to improve workflow efficiency.

**Goodwill Consulting — Web Development Intern** Feb–Jun 2023

Developed an e-commerce platform for selling, donating, and exchanging children's items using ASP.NET and Bootstrap.

**Icestartup — Web Development Intern** Aug 2022

Developed an invoice management platform (**fatoura.tn**) using React.js.

**STEG IT Center — Web Developer Intern** Jul 2022

Created a work management system for IT centers using HTML5, Tailwind CSS, and PHP.

## Education

**Faculty of Sciences of Bizerte** 2023–Present

Engineering Degree in Computer Science — Software & Data Engineering

**Higher Institute of Applied Languages and Computer Science, Beja** 2020–2023

National Bachelor's Degree in Computer Science

## Technical Skills

- **Programming:** Python, JavaScript, C#, PHP
- **AI/ML:** TensorFlow, Keras, CNNs, EfficientNet, YOLO, OpenCV, Scikit-learn
- **Frontend:** React.js, Angular, Bootstrap, Tailwind CSS
- **Backend:** Node.js (Express), ASP.NET
- **Databases:** MongoDB, MySQL
- **Tools:** Git, Power BI, Firebase

## Academic and Personal Projects

- **Yawning Detection for Driver Drowsiness** — Built a real-time fatigue detection model using **EfficientNet**.  
*Python, TensorFlow/Keras, OpenCV*
- **Insurance Accident Prediction** — Built a machine learning model predicting accident risks.
- **IoT Bracelet for Alzheimer Patients (Hani m3ak)** — Fall detection, heart rate monitoring, and GPS tracking with companion mobile app (*Wynk*).  
*Android Studio, Java, Firebase, NodeMCU ESP8266*
- **Smart Home Web Application** — Device management system using Node.js, Express.js, and MongoDB.
- **Clinic Management System** — ASP.NET-based clinic administration software.
- **Real Estate Platform** — Built using Angular, Tailwind CSS, and Spring Boot.

## Soft Skills & Languages

- **Soft Skills:** Teamwork, Communication, Analytical Thinking, Problem Solving, Fast Learning, Time Management
- **Languages:** Arabic (Native), French (Fluent), English (Professional Working Proficiency)