

Nesrine Khiari

Final Year Computer Science Student

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Final-year Computer Science student at the Faculty of Sciences of Tunis and aspiring Fullstack Developer, experienced in Java, Python, and Angular. Skilled in Artificial Intelligence and Cloud technologies, with hands-on training across the full software development lifecycle — from design to deployment. Passionate about optimizing business processes and building scalable, efficient solutions. Motivated to take on new technical challenges and grow through professional opportunities.

Professional Experience

AI Intern – Multi-Camera Detection & Re-Identification | **Hydatis** | **Tunisia** June - Aug. 2025

- Developed a computer vision system for detecting and re-identifying people across multiple video streams.
- Integrated **YOLO**, **Detectron2**, and **ByteTrack** for detection, with inter-camera Re-ID using **TorchReID**.
- Customized and trained **PyTorch** models; implemented real-time processing with **OpenCV**, improving detection accuracy.

Project Lead & Mobile Developer | **Startup Success Study** | **Tunisia** Jul. 2024 - Jan. 2025

- Developed a mobile app for student-university matching using **Flutter** (iOS & Android).
- Designed multilingual interfaces (Fr/En) and integrated with a **Node.js** backend.
- Organized agile sprints, reducing average delivery time by **20%** and improving client satisfaction.

Academic Projects

NutriSolutions – Nutrition Management Platform Dec. 2024 - Feb. 2025

- Fullstack development of a nutritional web platform using **Angular** (frontend) and **NestJS** (backend), with three user roles (admin, patient, nutritionist).
- Integrated real-time appointments, personalized recipes, and certificate moderation; secure exchanges via **JWT**, and data managed on **MySQL**.

AWS Cloud Deployment – 3-Tier Web Application Dec. 2024 - Jan. 2025

- Created a secure cloud infrastructure on **AWS** for a 3-tier web app, deployed over multiple **Availability Zones** using servers (**EC2**), database (**RDS**), and storage (**S3**).
- Set up **Load Balancer**, **Auto Scaling**, monitoring (**CloudWatch**), containerization (**Docker**), and private network (**VPC**) for a scalable, highly available environment.

Netvoyage – Business Travel Management Web App Apr. - May 2025

- Developed server-side modules using **Spring Boot**, secured with **Spring Security**, with data persistence via **JPA/MySQL**.
- Built real-time messaging (**WebSocket**) and a community forum, enhancing user engagement and communication.

Education

Engineering Degree in Software Engineering *Tunis, Tunisia*
Faculty of Sciences of Tunis (FST) 2023 - Present

Integrated Preparatory Cycle (Maths-Physics-Computer Science) *Tunis, Tunisia*
Faculty of Sciences of Tunis (FST) 2021 - 2023

High School Diploma in Mathematics (High Honors) *Tunis, Tunisia*
Lycée Pilote Bourguiba Tunis 2020 - 2021

Exchange Year (Kennedy Lugar Exchange and Study Program) *Nebraska, USA*
Crete High School 2018 - 2019

Technical Skills

Languages: C++, Python, Java, SQL, HTML5, CSS, JavaScript, TypeScript, PHP, JSON, XML

Tools: Git, GitHub, Jira, Postman, AWS, Docker

Frameworks / Libraries: Flutter, Angular, Spring Boot, .NET, NestJS, OpenCV, YOLO, Detectron2

Languages

English (TOEFL 102) — French (C2) — Arabic (Native Speaker) — Spanish (Beginner)

Extracurricular Involvement

Optima Junior Enterprise: Project Manager (2023-25), Marketing Consultant (2022-23), International Manager (2021–22)

Volunteer – SOS Gammarth: Provided English tutoring and social support to underprivileged children

Interests

Fitness, hiking, travel