

# HOUCEM HBIRI

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## PROFILE

Software Engineering student with proven experience in **full-stack development, mobile applications, and cloud deployment**. Skilled in end-to-end product development and **DevOps practices** to deliver scalable, high-impact solutions.

## EDUCATION

### Faculty of Sciences of Tunis

Engineering Cycle – Specialization in Software Engineering

Expected Graduation: 2026

Tunis, Tunisia

## EXPERIENCE

### SmartGros

Lead Mobile Developer

Feb 2025 – Present

Freelance

- Lead mobile developer responsible for the **maintenance, continuous improvement, and deployment** of the SmartGros mobile app connecting wholesalers with **300+** Tunisian retailers.
- Refactored and stabilized the codebase, fixing **30+ bugs** (including **12 critical issues**), and delivered the reliable **v1.1.0** release.
- Led subsequent releases (v2 and v3), adding major features such as **product promotions, voice-based complaint submission, and post-order evaluations**, shaped by retailer feedback.

### Hydatis

Jun 2025 - Aug 2025

Computer Vision Research Intern

Tunis, Tunisia

- Built a **multi-person tracking system** integrating **YOLOv8** detection with **TransReID**-based person re-identification
- Designed and tested tracking strategies (**IoU matching, ByteTrack, Memory Bank**) to mitigate ID-swapping during occlusions and when individuals re-enter the scene, improving long-term identity preservation

### ConvergeINNOV

Jun 2024 - Sep 2024

Full Stack Flutter Developer Intern

Sousse, Tunisia

- Developed **VoyageQuest**, a tourism app enabling real-time reservations across **50+ local businesses**, leveraging **Flutter, Firebase, and GetX** with **cloud functions** to maintain data consistency.
- Designed and implemented both **admin and user interfaces**, supporting efficient service management, reservation tracking, and intelligent filtering by service type, rating, and location
- Integrated **OneSignal push notifications** for real-time updates and promotional content delivery to enhance user engagement.

## PROJECTS

### NutriSolutions – Nutrition Management Platform | Academic Project

Angular | NestJS | Flutter

- Developed cross-platform, role-based nutrition app with tailored interfaces for clients, nutritionists, and admins
- Built role-specific features including recipe browsing/filtering, consultation scheduling, availability management, and real-time messaging with **Socket.IO** and **SMTP** notifications
- Containerized with **Docker** and served with **Nginx**; implemented **CI/CD pipeline** with **GitHub Actions** for full automation

### AWS 3-Tier Web App Deployment | Academic Project

EC2 | RDS | Auto Scaling | Load Balancer

- Deployed a fault-tolerant 3-tier architecture across 2 AZs, achieving **99.9% uptime** and supporting **1000+** concurrent users.
- Automated deployment with an **EC2 User Data script**, reducing deployment time and eliminating configuration errors.

## ACTIVITIES / LEADERSHIP

### Optima Junior Entreprise | Tunis, Tunisia

Nov 2022 – Jul 2024

- Co-organized **IPDAYS 2022** as part of the **logistics team**, guiding **200+ participants** and supporting **2 Masterclass presentations**.
- Managed the **SmartC project**, taking full responsibility for **technical execution and client communication**.
- Took initiative to **mentor 2 peers in Flutter**, enabling them to successfully transition to mobile development roles.

## SKILLS

**Programming Languages:** C++, Python, JavaScript, TypeScript, Dart, Java, SQL

**Frameworks & Libraries:** Flutter (Bloc, Riverpod, GetX), Angular, NestJS, Node.js, Spring Boot, TailwindCSS, GraphQL

**Cloud, DevOps & Databases:** AWS, Docker, Kubernetes, GitHub Actions, Jenkins, Nginx | MySQL, MongoDB, Firebase Firestore

**Development Tools:** Git, Jira, Postman, Firebase, OneSignal

## LANGUAGES

Arabic (Native) — French (Advanced) — English (Advanced)