

# HOUCEM HBIRI

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## EDUCATION

### Faculty of Sciences of Tunis

Expected Graduation: 2026

*Engineering Cycle – Specialization in Software Engineering*

*Tunis, Tunisia*

- Integrated Preparatory Cycle, Faculty of Sciences of Tunis (2021 – 2023)
- Relevant Coursework: Software Development Lifecycle, Web Distributed Systems, OOP, Machine Learning, Agile (Scrum), Cloud Computing (AWS)

### Sfax Pioneer High School

2021

*Baccalaureate in Mathematics with Honors (Very Good)*

*Sfax, Tunisia*

## EXPERIENCE

### SmartGros Startup

Feb 2024 - Present

*Lead Mobile Developer*

*Remote*

- Engineered the mobile frontend for **SmartGros**, an e-commerce platform connecting wholesalers and retailers
- Delivered complete UI in **Flutter** and integrated **push notifications** via **FCM** with a Spring Boot backend
- Published v1.1.1 on the **Play Store**, surpassing **100 downloads** and incorporating retailer feedback into product improvements
- Spearheading v2 and v3 releases with features such as product promotions, complaint submission through **voice recording**, and post-order evaluations

### ConvergeINNOV

Jul 2024 - Sep 2024

*Full Stack Flutter Developer Intern*

*Sousse, Tunisia*

- Developed **VoyageQuest**, a tourism app enabling real-time reservations across local businesses, leveraging **Flutter**, **Firebase**, and **GetX** for seamless cross-platform performance
- 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 dynamic promotional content delivery to enhance user engagement

## PROJECTS

### NutriSolutions – Nutrition Management Platform | Academic Project

Angular | NestJS | Flutter | AWS

- Developed a cross-platform, role-based application with tailored interfaces for clients, nutritionists, and admins.
- Built role-specific features: clients – recipe browsing with advanced filtering and appointment scheduling; nutritionists – availability management, personalized recipes and consultation tracking; admins – account management and certification verification.
- Integrated SMTP email notifications to confirm sign-ups, appointments, and consultation updates.

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

EC2 | RDS | Auto Scaling | Load Balancer

- Designed and deployed a fault-tolerant 3-tier architecture with EC2 instances, Multi-AZ RDS, and Elastic Load Balancing.
- Configured Auto Scaling and a Bastion Host to manage dynamic web traffic and secure private subnets.
- Automated deployment by using an EC2 User Data script with Nginx to serve the NutriSolutions application

## ACTIVITIES / LEADERSHIP

### Optima Junior Enterprise | Tunis, Tunisia

Nov 2022 – Nov 2023

- \* Co-organized the **IPDAYS 2022** event as part of the logistics team, ensuring seamless operations including participant guidance and presentation support
- \* Managed the **SmartGros project** independently, taking full responsibility for technical execution and client communication. This role led to a continued collaboration with the startup.

## SKILLS

**Languages:** C++, Python, Java, SQL, HTML5, CSS, JavaScript, TypeScript

**Developer Tools:** Git, Jira, Postman, AWS, Docker

**Frameworks/Libraries:** Flutter, Angular, Spring Boot, NestJS, OpenCV, YOLO, TransReID