# HOUCEM HBIRI

Software Engineering student at FST

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Houcem Hbiri (in)
HoucemHb (github)
Portfolio

## PROFILE

I am a second-year engineering student specializing in software engineering, passionate about mobile and web development as well as DevOps. I began my development journey with Optima Junior Enterprise. Currently, I am responsible for mobile development at a startup on a part-time basis. I have also led academic projects focused on web development, which has helped me strengthen my skills in both areas. Always curious and motivated, I am constantly seeking new challenges to grow and improve.

## EDUCATION

**Faculty of Sciences of Tunis**

Engineering Cycle – Specialization in Software Engineering
2023 – Present
Integrated Preparatory Cycle
2021 – 2023

**Sfax Pioneer High School**

Baccalaureate in Mathematics with Honors (Very Good)
2021

## SKILLS

**Technical Skills**

- FLUTTER
- ANGULAR
- SPRINGBOOT, NESTJS
- HTML, CSS, JAVASCRIPT, TYPESCRIPT
- MySQL, MONGODB, FIREBASE FIRESTORE
- GIT, GITHUB
- AWS
- METHODOLOGIE SCRUM
- C, C++, JAVA, PYTHON
- FIGMA

**General Skills**

- Problem Solving
- Teamwork
- Adaptability to New Technologies

## CERTIFICATIONS

GOOGLE SOLUTION CHALLENGE     2023 - 2024

## EXTRACURRICULAR EXPERIENCE

**OPTIMA JUNIOR ENTREPRISE**

- Project Division Consultant   2022 - 2024

## LANGUES

- Arabic: Native
- French: Advanced
- English: Advanced
- German: Beginner

## HOBBIES AND INTERESTS

- Football
- Gaming

## PROJECTS

**SmartGros - Order Management Platform for Retailers and Suppliers**

SmartC | 2022 - Present | Flutter

- Technical Lead for Mobile Development at the Startup
- Developed functional user interfaces for: home page, shopping cart, product list, product details, and user profile.
- Integrated APIs for various app functionalities, including retrieving the list of grouped orders, submitting new orders, and managing subscriptions.
- Deployed and released new versions via Google Play Console.

**NutriSolutions – Nutrition Management Platform**

Academic Project | 2024-2025 | Angular & NestJS  & Flutter

- Client-side Features:
  - Developed a dynamic interface for browsing recipes.
  - Added a favorites feature to save recipes.
  - Designed the user profile page.
  - Developed a search and filtering module.
  - Integrated an interactive calendar for scheduling appointments with a nutritionist.
- Nutritionist-side Features:
  - Designed a nutritionist dashboard allowing management of availability schedules and the ability to add, modify, and delete personalized recipes.
  - Implemented a patient tracking system displaying the list of patients consulted and notes taken during consultations.
- Administrator-side Features:
  - Developed an admin dashboard displaying the list of nutritionists registered on the platform, with the ability to verify their certifications.

**AWS 3-Tier Architecture**

Academic Project | 2024 - 2025 | Cloud

- Designed and implemented a scalable and highly available 3-tier architecture on AWS for a web application.
- Set up and configured EC2 instances and RDS Multi-AZ,
- Implemented Auto Scaling groups for both frontend and backend services to handle dynamic web traffic.
- Used Elastic Load Balancer to distribute traffic evenly across EC2 instances, ensuring high availability.
- Set up a Bastion Host to securely manage access to instances in private subnets.

**Voyage Quest - Tourism Application**

ConvergeINNOV | June – July 2024 | Flutter & Firebase

- Designed and developed a mobile tourism application.
- Implemented an advanced search system with filters to facilitate service discovery.
- Managed state with GetX to implement an MVVM architecture, optimizing code maintainability and separation of concerns.
- Integrated Firebase for authentication and data management.
- Integrated OneSignal for notifications.
- Set up a booking system allowing users to reserve services (hotels, restaurants, etc.).
- Developed a separate admin application for managing bookings and services.