

# DHAHRI BILEL

SOFTWARE ENGINEERING STUDENT

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## PROFILE

I possess a profound enthusiasm for software development, robotics, and design, and have consistently pursued opportunities to enhance my coding skill set.

## COURSE CERTIFICATES

Business Plan Summer Bootcamp August 2025

CyberOps Associate July 28, 2025 | NETCAD CISCO

Generative AI with Diffusion Models April 2025 | Nvidia  
Certification ID: e1lubZHUQQObUyf1IXMYhQ

Applications of AI for Predictive Maintenance December 2024 | Nvidia  
Certification ID: KMrHmaStS4qsb7\_ACOBK2Q

The Fundamentals of Industry 4.0 November 2024 | Novation City

Comprehensive Angular Course: Step-by-Step Guide for Beginners and Beyond August 2024 | Online

DevNet Associate 2023 - 2024 | NETCAD CISCO  
CCNAv7: Switching, Routing, and Wireless Essentials  
CCNAv7: Introduction to Networks

Mobile Development April 2024 | APPAXIS INNOVATIONS  
Front-end : Flutter and Kotlin  
Back-end : Node.js, MongoDB, Socket, and Middlewares

Du Makerspace à la Marketplace May 2024 | Elife Tech Center

GDG Randoteck - ML & AI Workshop Feb 2023 - May 2024  
Public Speaking Elife Tech Center  
Technique de recherche d'emploi  
HTML CSS workshop  
Blockchain

Mobile DEV Workshop : Flutter DEC 2022 | ISIMM  
CRIEEE 11 Edition Training day

Soft Step - Arduino configuration Oct 2022 | ISIMM  
CPU Training session

HTML Sep 2022 | Online  
Sololearn

## EDUCATION

2023-Present

Software Engineering Student at  
ISSATSO

2023

National License of Information  
and Communications Technology  
Diploma, speciality : Network and  
Internet of things

2020-2023

IOT Student at the Higher Institute  
of Informatics and Mathematics of  
Monastir "ISIMM"

2019-2020

Baccalaureate Mathematics at Ibn  
Khaldoun , High school in Siliana

## SKILLS

### Web Development

Front-End: HTML, CSS, JavaScript,  
Angular, React, Next.js  
Back-End: PHP, Node.js, Spring Boot,  
Django, Symfony  
Databases: SQL, PL/SQL,  
MongoDB, Firebase  
Other: Socket Programming, Middleware  
(Kafka, CORBA, RMI, RabbitMQ, REST,  
SOA)

### Mobile Development

Android: Kotlin, Java  
Cross-Platform: Flutter

### Desktop Development

Java: Java Swing, JavaFX

### Programming & Software Development

Languages: Python, Java, C, C#, Pascal  
Tools & Environments: Arduino IDE,  
VHDL, LabVIEW, MATLAB

PROFESSIONAL EXPERIENCE

Tech4Health Robotics Club

July & August 2025

Supervised 25 students in robotics, IoT, and AI projects, including: a vision-controlled robotic hand, a voice-to-text smartwatch, an emotion-responsive robot, and AI-powered smart glasses for the visually impaired.

Internship | Appaxis Innovations

July & August 2024

Collaborated on the development of a recipe app using Kotlin, Node.js, and MongoDB. Key features include JWT-based authentication, detailed recipe browsing,Recipes search, user submissions, and profile management with favorited recipes.

Internship | MAPS IT

July & August 2024

During my internship as a Graphic Designer, I crafted cohesive and impactful visuals using Photoshop, After Effects, and Premiere pro.

Graduation's Internship | Elife Tech Center

Feb - June 2023

For my graduation project, I developed HANK, a humanoid robot nurse assistant, and a smartwatch. HANK uses IoT and AI to improve patient care, featuring facial recognition, QR code scanning for medication instructions, vital sign monitoring, and GPS tracking. It's powered by a Raspberry Pi 4 with motors, sensors, and a touchscreen. The smartwatch, built with a Raspberry Pi Pico W, includes heart rate and body temperature sensors. Both housing devices were 3D printed.

Projects

- Collaborated on a Netflix-inspired Django platform with SQL database, enabling CRUD operations on movies, genre-based filtering, user reviews, average ratings, and favorites management.
- 2025
- Collaborated on a Spring Boot & Next.js app for managing PFE presentation schedules at ISSAT SOUSSE , with features for Excel import, jury assignment, teacher availability, Projects filtering , a chatbot ,and rule enforcement across departments.
- 2025
- Collaborated on a full-stack design services platform using React and Firebase, featuring microservices for background removal, AI image search, grid-to-code conversion, mockup generation, palette suggestions, a chatbot, and simulated payments
- 2025
- Built a Trello-inspired task management system using Next.js, featuring drag-and-drop task organization, board and list management, and real-time UI updates.
- 2025
- Collaborated on a Java mobile app for car appointments, integrating Firebase for user authentication and maps services for agency selection, among other features.
- 2024
- Flutter app for learning purposes, designed to manage courses and enable users to provide feedback.
- 2024
- Kotlin app for diabetes management, tracking blood glucose levels, and a chat app using the MVVM architecture, with backend services supported by Node.js and Socket.io .
- 2024
- Water Monitoring system with blynk app using (for Aeroverty startup)
  - ESP32,TDS sensor,cap028 water level sensor,waterproof temperature sensor and LCD 1306ssd
- 2023
- Humanoid robot ( Final Year's Project ) using :
  - ESP32-CAM , L298N motor driver , DC motors
- 2023
- Temperature control through a mobile app using :
  - Mit app inventor , LM35 temperature sensor , Arduino Uno , HC-06 Bluetooth module
- 2023
- Human Following robot using :
  - Arduino UNO , L298N motor driver , FC51 infrared sensor , SR04 Ultrasonic sensor , servo motor , DC motors
- 2022
- Line following robot using :
  - Arduino nano , L298N motor driver , FC 51 infrared sensor , DC Motors
- 2021

Design & 3D Modeling

Graphic Design:

Adobe Photoshop, Adobe Premiere Pro, Adobe After Effects, Canva, Figma

3D Modeling & CAD

Tinkercad, Solidworks

Electronic Design:

Fritzing, Proteus

CLUBS EXPERIENCE

DevFest EPI

2024 Edition

Active participant in GDG DevFest EPI 2024, gaining insights into cutting-edge trends in AI, cloud, and software development.

From Makerspace to Marketplace

May 2024 | Elife Tech Center

Participated as panelist and workshop contributor (ideation, 3D design & printing). Presented HANK, a humanoid healthcare robot, and won 2nd prize for an AI-powered 3D wearable device enabling text-to-speech for assistive technology.

CPU-Robotics & DEV ISIMM

2021-2023

Participating in organizing 'ISIMM-CYBERBOT 1.0', an international event

Senior Member

Design Assistant

Photographer

Participating in robotics competition ( BIROBOTS 5.0 )

LANGUAGES

- Arabic - Native
- English - fluent
- French - fluent
- German - basic level