Raja Hannachi

Software Engineering Student

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🌐 rajahannachi.vercel.app

PROFILE

Motivated and passionate Software Engineering student with solid skills in web development, artificial intelligence, and computer networks. Curious, adaptable, and driven by innovation, I continuously strive to enhance my technical and analytical abilities.

PROFESSIONAL EXPERIENCE

NovaStormLab, Tunis   *Jun. - Aug. 2025*
Summer Internship
- Designed and developed a web-based tool for pattern modeling, formalization, instantiation, and management.
- Transformed empirical knowledge into formal, shareable, and reusable knowledge structures.
- ***Technologies:*** *Angular, FastAPI, MongoDB*

MajestEYE, Jendouba   *Jul. - Aug. 2024*
Summer Internship
- Developed a fine-tuned NLP model to standardize automotive brand names.
- Leveraged LLMs for automated data curation and database quality enhancement.
- ***Technologies:*** *Python, Hugging Face Transformers, PyTorch, Streamlit*

Tunisie Télécom, Jendouba   *Feb. - May 2023*
Final Year Internship
- Analyzed network security and proposed optimization techniques to improve system performance.
- ***Technologies:*** *PfSense, GNS3, VMware Workstation*

EDUCATION

Higher Institute of Computer Science and Multimedia of Manouba   *Since 2023*
Engineering degree in Computer Science and Multimedia.

Higher Institute of Technological Studies of Jendouba   *2020 - 2023*
Bachelor's degree in Computer Technology.

High School of Jendouba   *2019 - 2020*
Baccalaureate in Experimental Sciences.

ACADEMIC PROJECTS

Final Year Project – Olive Tree Disease Detection System
- Developed a real-time olive disease detection system combining IoT and Deep Learning.
- Designed and implemented web and mobile interfaces.
- *Technologies: ESP32-CAM, YOLOv8, EfficientNetV2, Django, Flutter*

Web Development Project – Academic Management Platform
- Designed and implemented a platform for managing students, courses, and projects.
- *Technologies: React.js, Node.js, Express.js, MongoDB*

Mobile Application – Restaurant Management
- Developed a mobile application for online restaurant management and orders.
- *Technologies: Flutter, Firebase*

IoT Project – Smart Plant Monitoring System
- Designed a plant monitoring system using Arduino sensors and a Flutter-based UI.
- *Technologies: Arduino, Flutter, Firebase*

TECHNICAL SKILLS

Frameworks & Libraries: React.js, Angular, Node.js, Express.js, Django, Flutter, Tailwind CSS, Bootstrap

Databases: MySQL, Oracle, MongoDB, Firebase

Programming Languages: Java, Python, JavaScript, Dart

Tools & Methodologies: GitHub, UML, VS Code, Postman

Design & 3D Development: Figma, Unity, Blender

AI & ML Libraries: TensorFlow, OpenCV, PyTorch, Streamlit

Networking: PfSense, GNS3, Packet Tracer

PERSONAL SKILLS

Adaptability, teamwork, creativity, and ability to work under pressure.

CERTIFICATIONS

- **Cisco Badge – CCNA2:** Switching, Routing, and Wireless Essentials
- **Cisco Badge – CCNA1:** Introduction to Networks

COMMUNITY ENGAGEMENT

Robotics Club – ISAMM   *2025*
Active Member

AWARDS & DISTINCTIONS

1st Place – NXTHON Hackathon   *2025*
- Organized by Estudiant, Injaz Tunisia, Orenda Junior Enterprise, and Digital College.
- Developed a Flutter mobile app integrating AR via Unity for interactive vocational training.

1st Place – Pitch for Change 5.0   *2024*
- Organized by Melkart Junior Enterprise.
- Mobile app using Flutter and Spring Boot with AR, Power BI dashboard, and chatbot for La Poste Tunisienne.

LANGUAGES

- **Arabic:** Native
- **French:** Fluent
- **English:** Advanced

INTERESTS

- Reading Arabic literature
- Sports – Handball club participation