# 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*

## TECHNICAL SKILLS

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

**Databases:** MySQL, Oracle, MongoDB, Firebase

**DevOps:** Docker, Kubernetes, CI/CD

**Programming Languages:** Java, Python, JavaScript, Dart

**Tools & Methodologies:** GitHub, UML, VS Code, Postman, Design patterns

**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