# Ridha Wannessi

## IT Engineering Student – Web & Multimedia Technologies

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## SUMMARY

IT engineering student at ISIMS Sfax specializing in Web and Multimedia Technologies. Full-stack developer building REST APIs with Spring Boot and ASP.NET Core, web front-ends with Angular and Next.js, mobile applications with Flutter and Android, and AI solutions in computer vision, NLP and retrieval-augmented generation (RAG). Recent projects include automated testing, Docker containerization and CI/CD with GitHub Actions.

## EDUCATION

**Engineering Degree in Computer Science – Web and Multimedia Technologies**
*ISIMS – Higher Institute of Computer Science and Multimedia of Sfax | 2024 – 2026*

**National Bachelor's Degree in Information Technology – Multimedia and Web Development**
*ISET Sidi Bouzid – Higher Institute of Technological Studies of Sidi Bouzid | 2021 – 2024*

**Baccalaureate in Computer Science**
*Sidi Ali Ben Aoun High School | 2019 – 2020*

## SKILLS

**Programming languages:** Java, C#, Python, TypeScript, JavaScript, SQL, HTML, CSS
**Back-end:** Spring Boot, Spring Cloud, Spring Security, ASP.NET Core, Entity Framework Core, REST APIs, Microservices, JWT authentication
**Front-end and mobile:** Angular, Next.js, React, Bootstrap, Tailwind CSS, Flutter, Android
**Data and AI:** Machine Learning, Deep Learning, TensorFlow, Keras, PyTorch, scikit-learn, NLP, RAG, Computer Vision
**Databases:** PostgreSQL, MySQL, SQL Server, Elasticsearch, SQLite
**DevOps and tools:** Docker, Docker Compose, GitHub Actions, CI/CD, Git, Testcontainers, xUnit, pytest
**Other:** Web design, Design thinking, Problem-solving, Communication

## EXPERIENCE

**End-of-Year Project (PFA) Intern – ReaddlyTech | July 2026 – August 2026**
- Built Wathiq, a fintech platform: digital wallet, BNPL, credit scoring, identity verification and merchant services.
- Designed a modular monolith in .NET 10 and PostgreSQL 17 with an append-only ledger and architecture tests.
- Delivered a Flutter mobile app, Next.js web portals and a Python AI service, with Docker and CI. github.com/Wathiqq/wathiq

**Final-Year Project Intern – Diva Software | February 2024 – May 2024**
- Designed and developed a Computerized Maintenance Management System (CMMS) using Angular and Spring Boot.
- Developed REST back-end services and responsive front-end interfaces.

**Intern – Tunisie Telecom | January 2021 and January 2022**
- Advanced internship (2022): developed a web-based e-commerce application (back-end and front-end).
- Initiation internship (2021): discovered the professional IT environment and development practices.

## PROJECTS

**RAG PDF Assistant – Generative AI**
- Question answering over PDF documents with source citations, using multilingual embeddings and vector search; 20 automated tests. Technologies: Python, LLM, FastAPI, Streamlit, GitHub Actions. github.com/ridhaw/rag-pdf-assistant

**Expense Tracker – Full-Stack Web Application**
- JWT authentication and monthly spending summaries; 16 integration tests on PostgreSQL with Testcontainers, Docker Compose and CI. Technologies: ASP.NET Core, Entity Framework Core, PostgreSQL, Next.js, TypeScript. github.com/ridhaw/expense-tracker

**AgriPredict – Plant Disease Detection (Deep Learning)**
- Transfer learning on leaf images (4 classes); 87.6% test accuracy with fine-tuned MobileNetV2. Technologies: TensorFlow, Keras, MobileNetV2, Optuna. github.com/ridhaw/agripredict-plant-disease

**Car Rental – Microservices Architecture**
- API gateway with JWT, service discovery and centralized configuration; CI pipeline testing all 6 services. Technologies: Spring Boot, Spring Cloud, MySQL, Docker. github.com/ridhaw/car-rental-microservices

**Event Management and Clinic Management Applications**
- Event management web application (Angular, Spring Boot, Elasticsearch) and Android application for clinic management and appointment scheduling.

## ACTIVITIES

Active member of the AWS Club (Cloud Computing and DevOps) and the IEEE Club.