Walid Barhoumi

Full Stack Developer / M.Sc. Computer Science Student
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PROFILE

Final-year **Engineering student** at ESPRIT specializing in **Web and Internet Technologies**, currently pursuing **M.Sc. Computer Science** at Philipps-Universität Marburg. Passionate about **AI and web development** with strong problem-solving skills and international academic experience.

PROFESSIONAL EXPERIENCE

• Intern *June 2024 – Aug 2024*
GEISER Ech-Charguia, Tunis, Tunisia

– Developed fully functional web application for logistics company search using PHP, Symfony with user authentication, company management, and advanced search functionalities.
– Designed and optimized MySQL database schema ensuring fast data retrieval; created responsive front-end components.
– Implemented AI-assisted search features to enhance company matching accuracy based on user criteria.
– Delivered complete project within timeline through collaborative code reviews, testing, and deployment.

• Full Stack Developer — Skill Exchange Platform *Jan 2025 – June 2025*
ESPRIT University Project Ariana, Tunisia

– Developed full-stack skill exchange platform using React, Express.js, and MongoDB with CRUD operations for user profiles and skill listings.
– Integrated real-time notifications, matchmaking algorithms, secure authentication, and AI recommendations.

• Intern — SPIRAW Automated Spirulina Platform *May 2025 – July 2025*
ACTIA Group Ariana, Tunisia

– Developed automated spirulina cultivation platform integrating IoT, AI, and full-stack technologies with Odoo ERP for product, order, and client data automation.
– Implemented AI-driven analytics (GA4, custom ML models) to optimize marketing campaigns and built n8n workflows with OpenAI API for personalized multi-channel messaging (email, WhatsApp).
– Designed real-time KPI dashboards (React, Chart.js) and developed Spring Boot backend with JUnit 5 testing.
– Applied scikit-learn for predictive lead scoring and recommendation systems; contributed to IoT device optimization.

EDUCATION

• M.Sc. Computer Science (Exchange) *Sept 2025 – Present*
Philipps-Universität Marburg Marburg, Germany

• Engineer's degree, Web & Internet Tech. *Sept 2022 – Present*
ESPRIT Ariana, Tunisia

• Mathematics Baccalaureate *July 2021*
Assad Ibn El Fourat High School Manouba, Tunisia

SKILLS

Languages: C, C++, Python, Java, JavaScript, TypeScript, PHP, SQL, HTML/CSS, Dart
Frameworks: Spring Boot, Angular, React, Express.js, Symfony, JavaFX, .NET, Bootstrap, Flutter
Tools: Jenkins, Docker, n8n, Git, Google Tag Manager, GA4
Databases: MySQL, MongoDB, Odoo
AI/ML: TensorFlow, scikit-learn, PyTorch, Machine Learning, OpenAI API, Hugging Face, LangChain
Soft Skills: Problem Solving, Critical Thinking, Team Collaboration, Time Management

LANGUAGES

English: B2 (Cambridge FCE)   **French:** B2 (DELF)   **Arabic:** Native   **German:** Basic

CERTIFICATIONS

AWS Cloud Foundations (Nov 2025) | **Hashgraph Developer** (Nov 2025) | **Cambridge FCE B2** (Jul 2025) | **DELF B2** (Jun 2019)