Mazen Hassani

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TECHNICAL SKILLS

Languages & Frameworks:
Java, Python, Rust, PHP (Laravel), Spring Boot

Architecture:
Microservices, Monolith Design, Scalability, Performance Optimization

DevOps:
CI/CD (Docker, GitLab CI), AWS, Linux, Load Balancing

Specialized Domains:
Robotics Prototyping, Query Optimization

HONORS

IBM Call for Code 2021 Regional Winner

First Place at EDC 2019 and 2018 / American University of Beirut

Ninth Place in WRO World Finals 2018

First Place in WRO National Contest 2018

LANGUAGES

English   fluent

Arabic   native

Spanish   beginner

EXPERIENCED SOFTWARE ENGINEER

I've been developing, creating, and competing since 14, I'm now 32 with a solid background in backend development using Java and Spring Boot, AI and Robotics
Proficient in building products, optimizing deployment processes, and ensuring clean code principles in complex systems
Notable achievements include leading automation projects for data migration and diploma generation, as well as reducing deployment time by redesigning architecture in my current role Passionate about solving challenging problems and delivering high-quality solutions
Permanent resident of Spain, available immediately

WORK EXPERIENCE

Dec 2023 – Present
Software Developer - Backend, Bruker, Santiago de Compostela, Spain

- Developing and maintaining backend micro services using Java Spring Boot to support a large-scale application.
- Streamlined CI/CD pipelines, reducing deployment times and improving reliability.
- Enhanced data processing by optimizing queries, improving API response times significantly.
- Automated document generation and multilingual features to ensure consistent functionality across deployments.

Jan 2021 – Dec 2023
Team Lead & Web Developer, Harbour.Space, Barcelona, Spain

- Led a team of 5 developers to build a custom Learning Management System (LMS) from scratch, integrating six years of academic data to automate processes like diploma generation.
- Collaborated with stakeholders to align the system's architecture with user needs, ensuring scalability and ease of use.
- Built and managed CI/CD pipelines, keeping the team one click away from deployment and minimizing the need for DevOps support.

May 2023 – May 2024
CTO, Redwoods Dynamics, Barcelona

- Designed and developed robotic solutions for niche applications, focusing on functional prototypes and real-world use cases.
- Combined creativity and engineering to create small-scale robotic systems tailored for practical challenges.

Jan 2017 – Jan 2021
Educator and Entrepreneur, Damascus, Syria

- Founded a 3D printing business for custom robotics components, serving local market demands.
- Taught robotics and computer architecture to over 200 university students, fostering technical and creative skills.
- Created a LIDAR-integrated surveying robot to improve civil engineering quality assurance processes.

PROJECTS

Nov 2021
Clean Water Locator (Link)

- Developed a machine learning model to optimize well locations for clean water access, winning the IBM Call for Code 2021 Regional Award.

Nov 2018
Advanced Tetris Playing Robot (Link)

- Designed and built a Tetris-playing robot, which ranked ninth in the World Robotics Olympiad. The robot utilized a 5-DOF robotic arm, computer vision, and strategic algorithms.

Jan 2018
Rover Robot (Link)

- Created an autonomous robot with LIDAR and omni-wheels for precise navigation and mapping, used in civil engineering projects.

EDUCATION

Jan 2021 – Jan 2023
MA Data Science

Harbour.Space University, Barcelona, Catalonia

Jan 2012 – Jan 2019
BA, Major: Computer & Automation Engineering, Minor: Control Engineering & Automation

Damascus University, Damascus, Syria