Iyed Mdimegh

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Education

National Institute of Applied Science and Technology (INSAT)
Software Engineering Cycle (National Engineering Diploma) 09/2022 – 05/2027

Skills

Artificial Intelligence & ML: Reinforcement Learning, RAG, TensorFlow, Keras, Scikit-Learn, Computer Vision, CNN, Numpy, Matplotlib, Pandas
Software Development: Docker, OpenCV, Express.js, Node.js, Django, React.js, Git, PostgreSQL, MongoDB, PHP, Symfony, Socket.io, HTML, JavaScript, CSS, SEO
Other: Jira, C, C++, Java, SAP Joule

Professional Experience

Free2Move – *Software Engineering Intern - SAP Joule Integration* 07/2025 – 09/2025

- Developed AI-driven automation using SAP Joule to optimize business processes in SAP S/4HANA.
- Created custom agents to automate tasks like report generation, improving efficiency and decision-making.

Vectors – *Software Engineering Intern* 06/2025 – 07/2025

- Rebuilt "Jira Comment Toolkit" using modern technologies, replacing legacy code.
- Developed an Atlassian app to manage and classify Jira comments with AI-driven labeling for improved workflow.

Pixemantic – *AI Software Engineer Intern* 07/2024 – 09/2024

- Applied advanced AI and deep reinforcement learning to optimize 3D item arrangement in containers, improving space utilization and efficiency.
- Transformed the solution into a full-stack web application using Django and React.

PROXYM Group – *Software Engineer Intern* 06/2024 – 07/2024

- Created a social media web application from scratch using the MERN stack and Socket.io.

Projects

SMARTSHIELD - AI-Driven Cybersecurity Incident Response Platform 09/2024 – 12/2024
Team Leader & AI Engineer
Led a team to design an AI-driven platform for automated threat detection and response. Developed machine learning models for real-time security analysis, enhancing system performance and scalability.

INSAT Chess Coach Robot 09/2024 – 01/2025
Directed the development of a robotic chess coach integrating computer vision and robotics. Designed a robotic arm for real-time piece manipulation and adaptive gameplay to improve chess learning.

University Management Platform 01/2024 – 02/2024
Developed a web platform featuring user analytics, profile management, video courses, attendance tracking, schedule management, and communication tools for students, teachers, and admins.

Awards

1st Prize - IEEE TSYP 12 Challenge (SMC Chapter) 12/2024
National competition gathering over 20 universities across Tunisia. Developed a chess coach robot integrating computer vision and robotics.

2nd Prize - IEEE TSYP 12 Challenge (CS Chapter) 12/2024
National competition with over 20 participating Tunisian universities. Developed SMARTSHIELD, an AI-driven cybersecurity incident response platform.

3rd Place - AINS Hackathon (Artificial Intelligence National Summit) 07/2024
National competition gathering elite students from multiple Tunisian universities (20 participating teams).

Organizations

IEEE INSAT SB CS Chapter – *Vice Chair and Instructor* 08/2024 – 07/2025
Organized technical workshops and events, and led tutoring sessions on Artificial Intelligence, specifically Deep Reinforcement Learning.

Junior Enterprise INSAT – *Hackathon Organizing Committee President & Senior Member* 09/2023 – 02/2025
Organized "Hack for Good," a competition with three workshops, engaging participants nationwide to contribute to projects focused on Corporate Social Responsibility (CSR).

Notre Grand Bleu – *Senior Member* 04/2021 – 08/2023
Association aiming to preserve marine life in the Mediterranean.

Languages

English: Fluent **French:** C1 (TCF certified) **Arabic:** Native **Spanish:** Beginner **German:** Beginner