

# 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, MUI, 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

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<b>IEEE INSAT SB CS Chapter</b> – <i>Vice Chair and Instructor</i>	08/2024 – 07/2025
Organized technical workshops and events, and led tutoring sessions on Artificial Intelligence, specifically Deep Reinforcement Learning.	
<b>Junior Enterprise INSAT</b> – <i>Hackathon Organizing Committee President &amp; Senior Member</i>	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).	
<b>Notre Grand Bleu</b> – <i>Senior Member</i>	04/2021 – 08/2023
Association aiming to preserve marine life in the Mediterranean.	

## Languages

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