Iyed Mdimegh *Software Engineer Intern*

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Profile

I am a versatile software engineering student skilled in web development, competitive programming, and passionate about exploring the depths of deep learning.

Education

Software Engineering Cycle (Bachelor)	2024 – 2027
National Institute of Applied Science and Technology (INSAT)	Tunis, Tunisia
Integrated Enginnering Preparatory	2022 – 2024
National Institute of Applied Science and Technology (INSAT)	Tunis, Tunisia

Skills

Machine Learning
Tensorflow, keras, sqlearn, Computer Vision, CNN, Reinforcement Learning, Numpy, Matplotlib, and Pandas.

Web Development
Express.js, Node.js, Django, React.js, Git, PostgreSQL, MongoDB, PHP, symfony, socket.io, MUI, HTML, JavaScript, CSS, and SEO.

Other
C, C++, Java, and competitive programming.

Professional Experience

Software Engineer	2024/07 – 2024/09
Pixemantic ⊘	Tunis, Tunisia

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

Software Developper	2024/06 – 2024/07
PROXYM group ⊘	Sousse

- Created a social media web app from scratch using MERN stack and socket.io.

Projects

SMARTSHIELD - AI-Driven Cybersecurity Incident Response Platform ⊘	2024/09 – 2024/12
Team Leader & AI Engineer	

Led a team to build 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 ⊘	2024/09 – 2024/12

Led the development of a robotic chess coach integrating **computer vision** and robotics. Designed a robotic arm for real-time chess piece manipulation and adaptive gameplay, enhancing chess learning.

A University Management Platform	2024/01 – 2024/02

Built a web platform enabling **user analytics**, profile management, **video courses**, attendance tracking, schedules, and communication for students, teachers, and admins.

Awards

3rd place a AINS HACKATHON (Artificial Intelligence National Summit)	2024/07

A national contest that gathered elite students from Tunisian universities, forming 20 teams.

1st place at Enicar Coding Arena - Competitive Programming Contest	2024/03

1st place at ATCCM National Mathematic contest
Association of Tunisian Competitions and Mathematical Culture

Organizations

Junior Entreprise Insat	2023
Hackathon Organizing Commitee President	

"Hack for Good" was a contest comprising **3 workshops**, engaging **140 participants** nationwide to contribute to this event with **Corporate Social Responsibility** (**CSR**) focused projects.

Notre Grand Bleu	2022
Senior Member	

Association that aims to preserve the Mediterranean marine life

Languages

- English - Bilingual
- French - Proficient
- Arabic - Native