Nader Jemel

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EDUCATION

Massachusetts Institute of Technology — Cambridge, MA
Bachelor of Science in Computer Science, Economics, and Data Science — *Sep. 2019 – May 2024*

Lycée Pilote de Gabes — Gabes, Tunisia
High School Diploma — *Sep. 2015 – June 2019*

EXPERIENCE

Backend developer — June 2020 – October 2020
Kaoun (kaoun.com) — *Tunis, Tunisia*
- Optimized and contributed to the company's APIs in Python by adding new functionalities
- Maintained and contributed to the company's Elasticsearch
- Developed an optimization that makes accounting 3 time as fast

PROJECTS

Using AI to Make Self-Driving Cars Compatible with Bad Infrastructure — Feb 2018 – May 2018
- Used OpenCV, Tensorflow, and self-generated data to train models that detect road width and potholes in dirt roads in absence of defined lanes
- Gained knowledge in image processing and deep learning tools

Using NLP and Twitter API to Detect Terrorist Tweets in Arabic — Jan 2017 – May 2017
- Used Naive Bayes algorithm and calculations to study accounts and detect terrorists
- Gained knowledge in Python, data analysis, data mining, and APIs
- Managed to get around 70% accuracy

HONORS AND AWARDS

- International Olympiad in Informatics 2018 Bronze Medalist, 2019 Finalist
- Tunisian Olympiad in Programming 1st in 2018 2nd in 2019
- Arab Olympiad in Informatics 2018 Silver Medalist
- Tunisian Collegiate Programming Contest 4th (out of 95)
- National Science and Engineering Fair 3rd in 2018
- Microsoft Imagine Cup national winners in 2017

LEADERSHIP EXPERIENCE

LPG Computer Science Club - Founder — 2017 – 2019
- Taught programming basics to middle and high school students
- Organised online competitive programming contest for club members
- Encouraged members to participate in the Tunisian Olympiad in Informatics

Student Council - Chief of sponsorship — 2016 – 2018
- Science Expo: regional event where high school and college students show their inventions
- Organised CS50 puzzle day in school

Tunisian Scouts - Group leader — 2012 – 2018
- International Scouts Jamboree 2015 - Japan

TECHNICAL SKILLS

Languages and Frameworks: Python, C/C++, HTML/CSS, Django
Developer Tools: Git, Docker, AWS, Visual Studio, PyCharm, IntelliJ, CLion, Sublime Text
Libraries: pandas, NumPy, Matplotlib, OpenCV