

CHAHAT ABDENNOUR

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WORK EXPERIENCE

Illinois Institute of Technology

June 2021 - Dec 2021

Artificial Intelligence Researcher - Academic

Chicago, IL

Worked with a team of 2 Ph.D. and 3 Master's students on the Computer Vision task of Neural Tracing/Segmentation in Densely Labeled Multispectral Images under the supervision of Dr. Yan Yan.

INRIA: National Institute for Research in Digital Science

October 2020 - February 2021

Machine Learning Intern

Bordeaux, France

Participated in building, training, testing, and deploying a complex recurrent neural network for Video Analysis and Pattern Recognition using Python, with TensorFlow and Keras frameworks.

SKILLS

Languages	English (Full proficiency), French (Competent), Arabic (Native), Spanish (Limited)
Programming	Python, C, C++, PHP, JavaScript
Databases	MySQL, Oracle
Tools	Shell, Git, React, VSCode

EDUCATION

Illinois Institute of Technology, Chicago, IL

January 2021 - Dec 2021

Master of Artificial Intelligence. Overall GPA: 4.00/4.00

Relevant courses: Advanced AI, Machine Learning, Deep Learning, Data Mining, Data Intensive Computing, NLP, Advanced Social Media Analysis.

ENSEIRB-MATEMCA - Bordeaux INP, Bordeaux, France

September 2019 - Dec 2021

Master of Science in Computer Science.

Relevant courses: AI, Cloud Computing, Advanced Operating Systems, Parallel Computing, Compiling, Software Engineering, Mobile App Development.

ENSEIRB-MATEMCA - Bordeaux INP, Bordeaux, France

September 2018 - June 2019

Bachelor of Science in Computer Science.

Relevant courses: Data Structures & Algorithms, DBMS, OOP, Web Development, Network Programming, Systems Programming, Computability, Functional Programming

CERTIFICATES (COURSERA)

- Neural Networks and Deep Learning
- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization, and Optimization
- Convolutional Neural Networks
- Structuring Machine Learning Projects

PROJECTS

Camouflaged Object Detection – IIT

March 2021 - May 2021

- Built, trained, and tested a model for a supervised Computer Vision task aiming to identify camouflaged objects in an image. *Python, TensorFlow/Keras*.

Perceptual Losses for Real-Time Style Transfer – IIT

March 2021 - May 2021

- Built, trained, and tested a model for the unsupervised Computer Vision task of style transfer using a feature model as a loss function to the transformation model. *Python, PyTorch*.

GIGI Cryptocurrency System – IIT

June 2021 - July 2021

- Participated with a team of 5 in building a new cryptocurrency system by creating a Distributed Key Value Store. *Python, Cassandra (NoSQL Database)*.

Alpha Zero Connect 4 – IIT

March 2021 - May 2021

- Developed the Connect4 game with multiple agents based on the AlphaZero technique using CNNs and Monte Carlo Tree Search. *Python, Keras*.

Go AI Agents – Bordeaux INP

Feb 2020 - May 2020

- Developed multiple agents for the game GO, with a team of 2, based on several AI and ML technologies such as A*, Alpha-Beta, CNNs, MCTS. Ranked 4th out of 52 teams. *Python, Keras*.

Cart'eirb – Bordeaux INP

Sept 2019 - Jan 2020

- Developed, with a team of 3, a website and a database to create and collect game cards, decks, players, games, and tournaments, with population scripts and advanced search queries. *PHP, MySQL*.

Peer 2 Peer Network – Bordeaux INP

Feb 2020 - June 2020

- Developed, with a team of 4, a Peer 2 Peer Tracker-Centered application for uploading and downloading files. *Java, C*.

HONORS AND AWARDS

Moroccan Merit Scholarship

Moroccan Merit Scholarship for the students admitted in the best French Engineering Schools (Top 4% in Morocco).

French Government Excellence Scholarship

Scholarship given by The French Ministry for Foreign Affairs to the best foreign students studying in France.

Aquitaine Region Mobility Scholarship

Scholarship given by the Bordeaux Region in France to the best students to study in the United States.

ACTIVITIES

Travel	Visited 10 countries in one year (2019)
Climbing	Climbed highest mountains in Morocco (13,671 ft) and Poland (8,212 ft)
Associations	Active member and admin in several associations (e.g., Council of Europe, CliMates)
Esport	Gamer, ex 1st division in FIFA