

EDUCATION

Université Polytechnique des Hauts-de-France <i>PhD Computer Science, Advisors: Professor Smail Niar, Professor Hamza Ouaghnouni</i>	Valenciennes, FR Sept. 2020 – Current
Ecole Nationale Supérieure d'Informatique <i>Master of Science in Computer Science; Engineering Diploma in Computer Science</i>	Algiers, Algeria Sept. 2015 – July. 2020
Udacity <i>Udacity Deep learning with PyTorch Nanodegree Program</i>	Remote Feb. 2019 – Apr. 2019
Udacity <i>Udacity Deep Reinforcement learning Nanodegree Program</i>	Remote Aug. 2019 – Dec. 2019

EXPERIENCE

Transactions on Computer-Aided Design of Integrated Circuits and Systems <i>HW-NAS articles specifically. PUBLONS Profile</i>	Reviewer Mar. 2021
IEEE Transactions on Systems, Man, and Cybernetics: Systems <i>HW-NAS articles specifically. PUBLONS Profile</i>	Reviewer Feb. 2021
Massachusetts Institute of Technology, CSAIL Team <i>with Baghdadi Riyadh</i> Optimizing PyTorch; a deep learning Framework, with Tiramisu; a deep learning compiler. Optimize XLNet with operator fusion and tiling operations.	Final Year Project - Research Intern Aug. 2019 - July. 2020
Palantir <i>with Robert Fink</i> Contribute in Open Source Projects such as python-language-server	Software Engineer Sept. 2019
ML Course <i>with Pr. Benatchba Karima</i> Content Creator of the Machine Learning Course at Ecole Nationale Supérieure d'Informatique, Algiers. Create notebooks for the course and exercices. Present the TDs and help the students understanding the code and the tools.	Assistant Avr-May. 2019
School of AI Algiers <i>Make AI knowledge more accessible to everyone</i> A community of Algerian passionate that shares AI knowledge and creates projects. Organize several workshops and sessions to explain several deep learning concepts.	Founder Mar. 2019
CERIST <i>with Abdelouahab AMIRA, Security Division</i> Malware Classification application using Deep Learning	Data Science Intern June. 2018 - July. 2018

PUBLICATIONS

Hardware-aware Neural Architecture Search: Survey and Taxonomy IJCAI 2021 - https://www.ijcai.org/proceedings/2021/592	Apr 2021
Accelerating Neural Architecture Search with Rank-Preserving Surrogate Models Best Student Paper Award - ArabWic 2021	Jul 2021
A Comprehensive Survey on Hardware-aware Neural Architecture Search https://arxiv.org/abs/2101.09336	Dec 2020

PROJECTS

Pytorch_Tiramisu: An open-source python package that optimizes PyTorch models by calling the appropriate deep learning operators in Tiramisu Compiler.

AI2E: AI Everywhere Everytime is a series of workshops in machine learning. I helped selecting the topics, creating the notebook template and reviewing the content. <https://github.com/SchoolofAI-Algiers/AI2E-workshops>

Generate TV Scripts : Using LSTMs. <https://github.com/IHlaadj/generate-tv-script>

Face Generation with GANs: <https://github.com/IHlaadj/face-generation-gans>

Bike Sharing Project: <https://github.com/IHlaadj/bike-sharing-project>

GDG AR: An application that displays different objects and Google Technologies logos when moving the camera around GDG Banners https://github.com/IHlaadj/AR_Unity_Vuforia

Unity Navigation with RL : Reinforcement Learning project 1 <https://github.com/IHlaadj/drlnd-unity-navigation>

OpenAI Gym Taxi-v2 Solver: Reinforcement Learning project 2 <https://github.com/IHlaadj/OpenAI-Gym-Taxi-v2>

DL_Trending: Data Visualizations of the trending tasks and frameworks for Deep learning by analysing Model Zoo implementations and Github contributions.

Malware Classifier: Malware Classifier is a Rest API made with Django that classifies apk files between legitimate and malware.

Tayssir Hajj: A social network built for pilgrims to better recommend an accompanist for elder people.

Epsilon: A lightweight Linux Distribution. Project made as part of a university homework.

SELECTED AWARDS

WISC Scholarship Award 2021

Women in Service Computing Scholarship award.

WTM Scholarship 2020

Selected among 20 tech women in Europe and Africa to be awarded the Anita Borg's Scholarship.

Udacity Pytorch Side Project Winner On the category of Cyber Security 2019

with a Malware Classification Model created with CNNs

Individual Tunisia AI Hackathon NLU Challenge 2019

4th Best Model analysing a dataset of mixed languages French, Arabic and Arabic in Latin letters.

PROGRAMMING SKILLS

Languages: Python, Javascript, C/C++

ML/DL Frameworks: Tensorflow, PyTorch, Scikit-Learn

Web/Mobile Frameworks: Laravel, Flutter

Technologies: GCP, AWS, CUDA, MPI, Unity

COMMUNICATIONS & TALKS

SOAI Reading Sessions (Each Friday) 2020/2021

with School of AI Algiers

AI2E: AI Everyday Everywhere Apr. 2020 – June. 2020

with School of AI Algiers

Workshop : Machine Learning Study Jams Oct. 2019

with GDG Algiers

Talk : ML Pipelines with Tensorflow Extended Oct. 2019

At Devfest Algiers 2019

Workshop : Computer Vision & Deep Learning Sept. 2019

with School of AI Algiers

Talk : How to Start your AI Journey <i>At International Women's Day Organized by WTM Algiers</i>	Mar. 2019
Workshop : Deep Learning with PyTorch <i>with Facebook Circle Algiers</i>	May. 2019
Workshop : Neural Networks with Scikit-learn <i>At GDG Algiers School Event</i>	Dec. 2018
Workshop : Neural Networks <i>with School of AI Algiers</i>	Nov. 2018
Workshop : Linear Regression and Naive Bayes <i>with School of AI Algiers</i>	Oct. 2018
Talk : Build a Machine Learning Intuition <i>At Start Your AI Journey Event</i>	Sept. 2018
Workshop : Linear Regression and Naive Bayes <i>with School of AI Algiers</i>	Oct. 2018

VOLUNTEERING ACTIVITIES

Google Developers Group Algiers <i>Former Manager Development Department</i> Active member since September 2018. Helping in organization and the manager of the development team.	Organizer <i>Since Sept. 2018</i>
<ul style="list-style-type: none"> * Developing Devfest Algiers 2018 Website : devfest-algiers-2018.devfest.com * Member of the development team of the GDG Algiers Website : gdgalgiers.com * Machine learning Mentor at the hackathon Devfest 2018 * Event Manager of GDG School 14-15/12/2018 	
Women Techmakers Algiers <i>WTM Scholar & WTM Ambassador</i> As a WTM Ambassador, I help in my community guide more girls to discover the awesome projects they can build by working in the tech field.	Organizer <i>Since Sept. 2018</i>
School of AI Algiers <i>Former Manager</i> Dean of a large community of AI passionate developers and curious people that teaches and learns more about AI.	Founder <i>Since Sept. 2019</i>
<ul style="list-style-type: none"> * Organized multiple events. * Increase the number of chapter of School of AI in Algeria * Create a Youtube Channel to overcome the pandemic and continue learning while at home. 	