



Alexandre Heuillet

Third year software engineer student at Enseirb-Matmeca looking for a PhD student position (CIFRE) in Machine Learning.



22 yo



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Languages

French: Mother tongue

English: Professionnal level (TOEIC 990 / IELTS 7.5)

Japonais: Beginner level

Skills

Languages: Python, C, C++, C#, Shell Script, Java, Javascript, HTML, CSS, PHP

Machine Learning: PyTorch, Keras, TensorFlow, RNNs, GANs, CNNs, Reinforcement Learning, Reservoir Computing

Multimedia: Unity

Web Frameworks: Symfony 4, Wordpress, Bootstrap 4, VueJS, Django

Databases: MySQL, SQLite, MongoDB

Education

Since 2017

ENSEIRB-MATMECA

Bordeaux, France

Software engineer student in computer science curriculum (Master), specialized in Artificial Intelligence. Graduation expected in 2020.

2015 - 2017

CPBx

Bordeaux, France

French intense math and physics preparation curriculum before entering a High Engineering School.

2012 - 2015

Lycée des Graves

Bordeaux, France

High School diploma (bacchalaureate) obtained with high honors.

Experience

02/2020 - 07/2020

Groupe Renault

Paris, France

Research intern in the ADAS department. Creation of a GAN-based Python application that generates photorealistic street videos from segmented images in order to test onboard cameras.

06/2019 - 08/2019

Kyushu University

Fukuoka, Japan

Research intern in an AI and Robotics laboratory. Implementation of a Microsoft Hololens app dedicated to help training nursing staff to provide care to elderly people.

04/2018 - 04/2019

Aquitaine Électronique Informatique

Bordeaux, France

Director of the information systems for ENSEIRB-MATMECA's Junior-Enterprise. Maintenance and improvement of software and websites, technical assistance and computer consulting, team management.

06/2018 - 07/2018

Omnitech Security

Mérignac, France

Intern. Unitary and integration tests conduction, redaction of PHP scripts to remote control domotic equipment.

Academic projects

10/2019 - 01/2020

Redaction of a state-of-the-art survey on Explainable Reinforcement Learning (XRL) and implementation of a novel interpretability method based on Shapley values computation. This work was supervised by a researcher from INRIA Flowers team.

10/2018 - 03/2019

Creation of a web platform (made with *Django*) analyzing RNNs for researchers of INRIA.

03/2019 - 05/2019

Creation of a Python-based artificial intelligence capable to play *Othello* at expert level.

01/2018 - 05/2018

Conception of a graphical simulator in C language for Small Size League Robocup matches.

Publications

03/2020 (expected)

Alexandre Heuillet, Fabien Couthouis and Natalia Diaz Rodriguez. "Explainability in Reinforcement Learning". (Work in progress)

Interests

Science and technologies (Web, Machine Learning and Robotics especially), computer hardware, History, cycling (regular practice), role playing games and card games.