Alexandre Jouandin

Graduate Computer Science student looking for challenging opportunities in Deep Learning.

Personal Info

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WORK EXPERIENCE

JUNE - DEC. 2018

Data Scientist (intern) at Karos

Paris, France

Karos makes carpooling effortless: it matches together commuters with similar habits, turning the network of car drivers into an extension of the public transport system, and improving the well-being

I shrank the number of irrelevant matches by 30% by building, training and deploying a Machine Learning model that predicted likeliness of a match between two users to be accepted.

I improved the throughput of the fraud detection system by a factor of 50 per month, by designing, training and deploying a semi-supervised clustering model.

SUMMER 2017

Software Engineer (intern) at Blokur

London, UK

Cut the processing time of the entire Universal Music records catalog from half-an-hour to 8 minutes by redesigning and reimplementing a single-thread file processing algorithm into a highly concurrent, fault-tolerant system that could run across multiple processors across multiple AWS servers. | Recommendation on LinkedIn

SUMMER 2016

Software Engineer (intern) at RiteTag

Remote

Led a team of other interns to take on designing and creating the foundation framework for the | Recommendation on LinkedIn new direction the company was about to take.

EDUCATION

2017-2019 Georgia Tech Master's Sc. in Computer Science Atlanta, GA, USA

Major: *Machine Learning*

Developing my Computer Vision and Autonomous Robotics skills while heavily specializing in Machine Learning and Artificial Intelligence. Through this specialization I have experienced a lot with many Machine Learning technologies and gained a lot of insight on tuning supervised, unsupervised and reinforcement learning algorithms.

2015-2017

ENSEEIHT Master's Sc. in Computer Science

Toulouse, France

Major: High Performance Computing & Big Data

Deepened my knowledge of programming and delved into Applied Mathematics.

2012-2015

Classes préparatoires Undergraduate-level Mathematics & Physics studies Paris & Lyon, France

Lycée Français de Moscou Science Baccalauréat with Honors 2012

Moscow. Russia

Skills

Machine Learning, Robotics, Adv. Software Engineering, Cybersecurity, Computer Architecture **INFORMATICS:** MATHEMATICS: Linear Algebra, Bayesian Statistics, Stochastic Optimization, Large Scale Linear Optimization

PROJECT HIGHLIGHTS

Reconnaissance Chess Agent

AlphaZero in the context of imperfect information game

Built an agent able to play Reconnaissance Chess – a variant of Chess where the players do not see each other pieces and are only allowed to "sense" one 3×3 square on each turn. My implementation is based on DeepMind's AlphaZero and uses a Monte Carlo Tree Search backed by a Tensorflow Deep Neural Network. The main difficulty was adapting the idea to our variant where information is imperfect.

Shrimp in Petri Dishes

Using Computer Vision to assess water quality

Built an algorithm to visually track freshwater shrimp in Petri dishes and return indicators about their movement that reasearch scientists would then use to quantify the water quality (roughly, the more polluted the water, the less the shrimps will move).

Simultaneous-Localization-and-Mapping-aided task planning

Built SLAM-aided task planning software for ROS. The software was written in a mix of C++ and Python and ran on a Turtlebot. It enabled the robot to start from its charging dock, intelligently scout around a building to build a WiFi signal map, and return to its base.