

Nicolas Six

Computer Science

Majoring in Machine Learning



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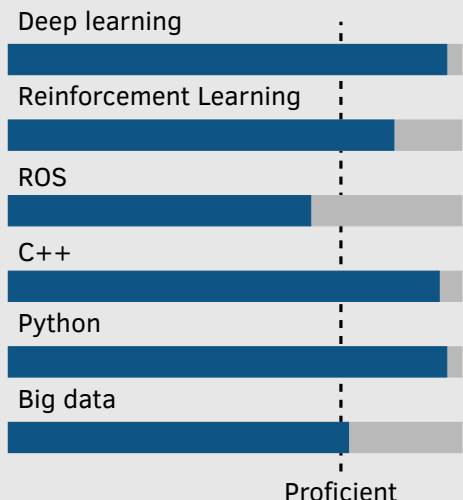


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About me

I am a French computer science student graduated from the Georgia Institute of Technology with a major in Machine Learning. I like to work on abstract topics such as applied mathematics, machine learning and algorithms. I have always loved building things, and computer science allows me to do so with as little physical constraint as possible, making it very exciting. I strongly believe that working in team is the best way to make a project successful.

Skills



Languages

English	Fluent
French	Mother tongue
Spanish	Basic Knowledge

Hobbies

DIY, Photography, 3D Printing,
Open-Source, Programming, Chess
Swimming, Ultimate Frisbee

Education

- 2018 - 2019 Graduate studies in Machine Learning *Georgia Tech - Atlanta, US*
Master of Computer science with thesis, major in machine learning.
GPA: 3.85/4.0
- 2015 - 2019 Graduate studies in Computer Science *INSA Lyon - Lyon, Fr*
Top French university. Advanced computer science classes on algorithm, C++, AI, Data mining, databases and information theory
- 2013 - 2015 Preparatory classes *INSA Lyon - Lyon, Fr*
Top French university. Advanced classes in Mathematics, Physics and Mechanics. Ranking: 19th/650

Professional Experience

- Fall 2019 Graduate Teaching Assistant *Georgia Tech - Atlanta, US*
Taught "AI for Smart-City" civil engineering graduate class.
 - Developed and corrected homework.
 - Taught deep learning and AWS.
- 2018 - 2019 Graduate Research Assistant *Georgia Tech - Atlanta, US*
Managed computer vision project on traffic sign detection.
 - Detection using Yolo3, C++. Over 99% traffic sign detected with lower than 10% false detection, running real time on GPU.
 - Detection on smartphone with Tensorflow Lite. Custom low precision model reaching 70% mAp at 80fps on a S6.
 - Mapping with Structure From Motion (SFM) and visual-SLAM.
 - Handled new hires for the lab.
- 2017 Big data intern *Group Bel - Paris, Fr*
Coordinated Big data experiments in a test production line.
 - Listed the 300,000 sensors variables in a SQL database.
 - Developed plan to collect them.
- 2016 R&D intern *Total EP - Pau, Fr*
Experimented with floating point data compression.
 - Investigated with terabit scale 3D floating point data.
 - Demonstrated impacts on quality to field specialist.

Project Experience

- Spring 2018 Special problem *Georgia Tech - Metz, Fr*
Trained a CNN to recognize landscape of the same place through seasons and weather with Siamese network using Keras.
- 2017 - 2018 Reinforcement learning project: OSCAR *Team project - Lyon, Fr*
Leader of the reinforcement learning (RL) of an AI for Starcraft II project, using neural network and state of the art RL algorithms leveraging Gym and Keras.
- 2015 - 2017 Organizer of 24h de l'INSA festival *Lyon, Fr*
Manager of the cultural animations team and CIO of the biggest student festival in France, 40,000 people over a weekend.
- 2015 - 2016 Remedial teaching *INSA Lyon - Lyon, Fr*
Taught physics to groups of four college students in difficulties.
- 2015 - 2016 Neural network project: SWAN2 *Team project - Lyon, Fr*
Creation of our own neural network in C++ and experiments with genetic algorithms, built around a Qt UI with IPP optimizations.
- 2016 Winner of INSA Lyon 24h robotic competition *INSA Lyon - Lyon, Fr*
Leader of the winning four students team.

Technical Skills

Programming Python, C/C++, Bash, \LaTeX , Fortran, Java, SQL, Matlab
Libraries Keras, PyTorch, Darknet, OpenCV, Qt, ROS, Intel MKL, Intel IPP, MPI
Systems Linux (Ubuntu), Docker, AWS, Git