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Mael Abgrall
Software engineer + Msc. AI
Interested in discovering new things !


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For more detail and complete list of skills projects, etc, please check my website on <https://maelabgrall.github.io/>

Studies/Diploma:

2018 – 2019 (1 Year)	MSc. Artificial intelligence – Heriot Watt University (UK) (Artificial Intelligence, Biologically inspired computation, 3D graphics, Data mining & machine learning)
2013 – 2018 (5 Years)	Master of engineering (equivalent to master 2) - ESME Sudria, (France) engineering school of electronics and informatics. Specialisation computer science (image processing, virtual & augmented reality, big data , etc) (full course list available on my website)
2016 (6 Months)	Exchange program – Vidzeme University of Applied Sciences (Latvia)

Skills:

My main language is Python followed by C++, and I'm interested in learning Rust

Python	C / C++	Windows (daily usage)
Java / JEE	DB & Queries (SQL & NoSQL)	Linux (daily usage of Fedora)
C# / ASP.NET	JavaScript / NodeJS	Git / vsCode / Bash

I have also an average math & electronic level

Working experience:

2018 (5 Months)	Research intern in Artificial intelligence School of Mines ParisTech (Mathematical morphology) (Paris, France) <ul style="list-style-type: none">- Neural network security (Adversarial examples)- Active learning for deep neural networks in image segmentation
2017 (3 Months)	Internship in Business Intelligence & Web development IT-CE (Paris, France) Development of monitoring tools for software architects, & a smart-wiki website based on word documents (MSSQL, PowerBi, ASP.NET)
2016 (1 Month)	Internship in the IT department of a hospital Centre Hospitalier Princesse Grace (Monaco) Development a software with NAO to interact with old people with disabilities
2014 – 2016 (multiple mission)	Science educator (UAV & drones) - OSI (Objectif Science International) NGO Multiple locations in France and Switzerland .

Personal involvement

2016 – 2017 (1 year)	President in two students' art club Bureau Des Arts ESME Lyon & Bureau Des Arts ESME Paris
2015 - 2016 (7 months)	
2010 – present (8 years)	Amateur photographer Mab Photography (Meuuul) Creation of a photography blog & voluntary work in photography

Latest projects / school work:

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| 2018 – 2018
(coursework) | <ul style="list-style-type: none">- Creating a 3D scene using OpenGL (C++, OpenGL)- Naïve implementation of a perceptron (Python)- Naïve implementation a of genetic algorithm and particle swarm optimization using multiple benchmark functions (Python)- Analysis of multiple query type for active learning (Python)- Reinforcement learning & Markov decision process on a tic-tac-toe (Java) |
| 2017 - 2018
(6 Months) | Image segmentation for medical use. (Python , OpenCV) |
| 2017 (6 Months) | Making a voice Recognition software with Deep Learning techniques (C++ , no library used) |
| 2017 (6 Months) | Making a procedurally generated map for a game (C++ , Qt). |
| 2016 (6 Months) | Creation of a basic image editor using multithreading (C++ , Qt) |
| 2016 - 2017 (practical work in school) | <ul style="list-style-type: none">- Image processing in Matlab- Data compression algorithms- Creation & edition of database in SQL, NoSQL & basics of Hadoop MapReduce- Creation of web app in Angular 2+- Creation of a IRC chat (NodeJS)- Various OOP oriented practical work (Python, Java, NodeJS)- Simulation of a digital clock in VHDL- Creation of a basic program using an 8bit PIC (C) |

Languages:

- French (native)
- English (TOEIC 915 / IELTS 6.5, daily usage)
- Spanish (basic level)

Hobbies:

- Many international travels with friends or alone (Europe, America, Africa, Oceania).
- Many individual & team sports
- From 2005 to 2013, regular competitions (mainly in ATV, skiing and swimming).
- New technologies
- Music & Cinema