Maxime ELKAEL

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Professional experiences

Since october 2020	**PhD - Artificial intelligence for network virtualisation**, Télécom Sud-Paris/Davidson Consulting. Maintenance of the Python library developped during the internship, implementation of new features
2020 (march to october)	**Internship - Artificial intelligence for Virtual Network Embedding**, Télécom Sud-Paris Development of a library for the simulation of virtual network embedding (Python, networkx, numpy) and associated unit testing. Proposition and implementation of a new artificial intelligence algorithm (reinforcement learning, deep learning - PyTorch). Improvement in the number of placed networks up to 10%.
2019	**Private lessons (Maths/Physics)**, Help for highschoolers' homeworks.
2016-2017	**Collège du Cèdre, Le Vésinet - France**, School monitor - taking care of pupils, communication with parents, investment in a team.

Formation

2018-2020	**Master - Algorithmique et Modélisation à l'Interface des Sciences**, Université Paris-Saclay Web (J2EE, Node.js, HTML/CSS), Java, Databases (MySql, SQLite), Design Patterns, Graph algorithms, Modelisation, Operations research, distributed algorithms.
2014-2017	**CS Bachelor**, Université de Versailles Algorithmics, C/C++, Java, System programming (Linux), Cryptography, Networking.

Projects and personnal experiences

Ongoing	**Smart Glasses**, *Conception and realisation of smart glasses for deaf and hard of hearing people*, Embedded web programming (ESP32/Arduino), vocal recognition, electronic conception.
2018	**Machine learning for a radio ad-blocker**, Scraping and cleaning of the data (Selenium, PhantomJS, Scrapy). Sélection of features and comparison of machine learning models (SVM, CNN). Résultat : précision de 70%.
2018	**Manu le Menu**, *Restaurant recommendation chatbot*, Data scrapping and cleaning (Selenium, PhantomJS, scrapy). Use of the facebook messenger API with Django.
2018	**Hackathon - Silver Economy**, 3rd price (1000) for networking platform project.
2017-2018	**Backpacking in South America**, *Argentina, Chile*, Acquired a great autonomy, learned spanish on-site.

Skills and languages

Python : Scikit-learn, Keras, Pytorch, Django.	Java - J2EE (Struts, JSF)
HTML5 - CSS3 - JavaScript	TDD, design patterns
SQL - SQlite, MySQL	Linux/Shell, Git, Make, AWS
Anglais courant	**Soft Skills** Autonomous and collaborative Able to learn new domains