Ma XiangXiang

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Education

2018 – 2019 **University of Manchester, UK**
Master of Science in Artificial Intelligence

- Dissertation involved developing an AI system, based on motion graphs, for generating novel character animations using motion capture data.
- Used NLP techniques to mine tweets about Brexit impact on the job market. This involved topic modelling, sentiment analysis and name entity recognition.
- Modules: Machine Learning, Modelling of High-Dimensional Data, Text Mining, Computer Vision, Software Engineering, Agile Development

2014 – 2018 **University of Bologna, Italy**
Laurea in Computer Science and Engineering

- Dissertation in Computer Graphics involved in developing a virtual reality application for medical imaging diagnosis using Unity 3D and the Steam VR platform.
- Led a team project designing and developing a sandbox physics simulator of the solar system in Java, using the MVC architecture.

Work Experience

Nov 2017 – Jan 2018 **Yoroi Srl**
Internship – Machine learning

- Worked with technologies such as Docker, Scala and the DeepLearning4j library.
- Developed a neural network for classifying different types of malware, which has been tested in production.

Technical knowledge and Skills

- **Machine learning:** Tensorflow 2.0, Keras, DL4J, Scikit-learn
- **Programming:** C/C++, Java, Python, Scala, Bash scripting, Matlab
- **Parallel programming in C:** OpenMP, MPI, and CUDA
- **DB and cloud:** MySQL, Google Cloud Compute Engine and Firestore
- **Software engineering:** Git, UML design, Testing, Agile practices
- **Languages:** English (fluent), Italian (native), Chinese (intermediate)