

Marvin Martin (He/Him/His)

Software Engineer, Machine Learning

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EDUCATION

Boston University Boston, MA
M.Sc. in Computer Information Systems 01/2021-09/2021

- Major: Data Analytics, Grade A
- Relevant Coursework:
Analysis of Algorithms, Big Data Analytics,
Advanced Programming Techniques,
Machine Learning, and Deep Learning.

Ecole Centrale d'Electronique Paris, FR
M.Sc. in Computer Information Systems 09/2018-12/2020

- Major: Data Science, Grade A (Top 5%)
- Relevant Coursework:
Advanced Database, DevOps, Web Development,
Cloud computing, Mathematics for Data Science,
Calculus, Algebra, Physics, and Signal Processing.

INSEEC London London, UK
B.Sc. in Computer Science 01/2019-05/2019

- Relevant Coursework:
Java, Probability and Statistics, and Public Speaking.

Heriot-Watt University Edinburgh, UK
B.Sc. in Computer Science 01/2018-06/2018

- Relevant Coursework:
Electronics, C Language, and Business Management.

EXPERIENCE

Vic.ai New-York, NY, USA
Machine Learning Engineer 11/2021-Now
[Vic.ai](#) builds AI-based autonomous accounting systems.

- NLP/ML development.
- MLOps tasks to build continuing training pipelines.
- Building distributed model training using Ray and AWS.

Centre Sécurité Requin (CSR) Réunion, FR
Machine Learning Engineer Consultant 11/2020-Now

- [CSR](#) is a public research center that studies shark attacks.
- Build Neural Network for underwater shark classification.
 - Research related to Adversarial Domain Adaptation.
 - Create pipelines using Nifi to classify videos in real time.
 - Investigate model reliability based on weather conditions.

Heuritech Paris, FR
Training Data Operator Intern 04/2020-08/2020

[Heuritech](#) builds visual recognition and trend forecasting technologies for fashion industry.

- Developed Python internal automation tools.
- Ran data engineering tasks to improve datasets.
- Trained Deep ConvNets from containers.
- Active Learning research on acquisition functions.
- Training metrics investigation.
- Prioritized strategies for error and bias reduction.

Lectra, Innovation Lab Bordeaux, FR
Lab Intern 05/2019-06/2019

[Lectra](#) develops systems for the textile industry.

- Explored Generative Adversarial Network for fashion.
- Collected web data using Data Crawling techniques.

LINKS

[Website](#) [LinkedIn](#) [Github](#) [Medium](#)

PUBLICATIONS

In progress: A framework for shark detection employing underwater cameras and domain adversarial convolutional neural network (Boston University and CSR).

PROJECTS

Domain adversarial neural network [\[Report\]](#) [\[Code\]](#)

Reproducibility study of the papers: Ganin Y., et al. Domain-adversarial training of neural networks, and Pei Z., et al. Multi-adversarial domain adaptation. I increased by 0.025 the target accuracy, of the MNIST→MNISTM task.

PySpark neural network from scratch [\[Article\]](#) [\[Code\]](#)

Spark implementation of a shallow neural network to classify handwritten digits. The training can run in the Cloud with large dataset. Gradients are computed via MapReduce jobs.

Emotion based Art Generator [\[Article\]](#) [\[Code\]](#)

Conditional generative adversarial neural network (CGAN) trained to generate 64×64 painting images for a selected style (portrait, abstract, landscape or flower-painting) and emotion (positive, neutral, or negative).

LogNice [\[Code\]](#)

Python distributed code executor for an online coding competition platform. Code submissions are queued with RabbitMQ and Celery, then ran in a docker container. Scores are stored using a Redis database and sent to the user using SocketIO.

CERTIFICATIONS

- [Workera Software Engineer Deep Learning Assessment](#)
- [Deep Learning Specialization](#) by DeepLearning.AI.
- [GANs Specialization](#) by DeepLearning.AI.
- [Deep Learning and Computer Vision A-Z](#).

SKILLS

- **Languages** : Python, Java, R, C, JavaScript, NodeJs.
- **Libraries** : Tensorflow2, Pytorch, Skit-Learn, Wandb, Spark, OpenCV, Pandas, Numpy, ReactJs.
- **Tools** : Git, Docker, GCP, AWS, Ray, Hadoop.
- **Databases** : MongoDB, PostgreSQL, FireBase, HDFS.
- **Teamwork** : Zoom, Notion, Slack, Slite.
- **Soft Skills** : Ethics, Leadership, Public Speaking.

LANGUAGES

English: Fluent **French:** Native **Spanish:** Novice

ACTIVITIES & LEADERSHIP

Comedian, Stuntman: Performed in [Timéo](#) in front of 1000 people, 3 times a week as a skateboarder (2016).

Sports: Skateboard (Instructor), Surf, and Slackline.

Achievements: 300km in 3 days on a longboard.