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, and Mathematics for Data Science.

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.

Institut Supérieur d'Electronique   Paris, FR
Associate of Science   09/2016-12/2018
- Relevant Coursework:
    Calculus I and II, Linear Algebra, Analysis I and II,
    Mechanics Physics and Signal Processing.

EXPERIENCE

Centre Securité 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, Google Cloud, AWS, Hadoop.
- **Databases** : MongoDB, MySQL, 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.