

# Marvin Martin (He/Him/His)

Machine Learning Engineer

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## EDUCATION

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

- Major: Data Analytics, GPA 4.0
- 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%, 16.8/20)
- 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-Present

[Vic.ai](#) builds AI-based autonomous accounting systems.

- Modeling Gradient Boosting, Transformers and LLMs.
- Build Projects like PO Matching, Invoice Coding, OCR.
- ML Infrastructure (Lambda, SageMaker, Kubernetes).
- Data Engineering, Feature Engineering at scale (Ray).
- Support +20,000 models training bi-weekly (+800%).

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

[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.

- Ran data engineering tasks to improve datasets.
- Trained Deep ConvNets.
- Active Learning research on acquisition functions.
- Training metrics investigation.

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

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

- Explored Generative Adversarial Network for fashion.

## LINKS

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

## PUBLICATIONS

**In progress:** ADA-Shark: A framework for shark detection employing underwater cameras and domain adversarial neural network (Boston University & CSR).

## PROJECTS

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

Reproducibility study of the [DANN](#) and [MADA](#) papers using PyTorch-Lightning.

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

Spark implementation of a shallow neural network to classify handwritten digits. Gradients are computed via MapReduce.

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

Conditional generative adversarial neural network (CGAN) trained to generate  $64 \times 64$  painting images for a selected style and emotion.

**Neural Network from Scratch** [\[Article\]](#) [\[Code\]](#)

Mathematics and Numpy code behind 3 Layers Neural Network.

## CERTIFICATIONS

- [Generative AI with Large Language Models](#)
- [Generative AI Fundamentals](#)
- [Workera Software Engineer Deep Learning Assessment](#)
- [Deep Learning Specialization](#)
- [GANs Specialization](#)

## SKILLS

- **Languages** Python, Java, Bash, R, C, JavaScript.
- **ML Libraries** PyTorch, Keras, HuggingFace, PEFT, LangChain, OpenAI, Skit-Learn, Wandb, DVC, OpenCV, Pinecone, MLlib.
- **Monitoring** Sentry, Datadog, Grafana, Zabbix.
- **Deployment** Docker, Terraform, Kubernetes, AWS, Git-flow, Circle-ci.
- **Cloud** AWS (SageMaker, S3, Lambda, Batch, ECS, EFS, SAM), GCP, Ray.
- **Databases** PostgreSQL, Redis, MongoDB, Firebase.

## 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.