

Sacha Dumay

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DATA SCIENTIST with possible E-2, J-1 visa

Autonomous, Dynamic & Creative. Open-minded & International Communication skills

WORK EXPERIENCES

Jan 2017 - Sept 2018
(2 year)

Founder & Data Scientist- NSJ Tech

(Big Data company, Seoul, South Korea)

NSJ Tech provides price prediction & protection models based on machine learning algorithm.

- LSTM in Keras, Reinforcement Learning, Deep Learning
- Deep Q learning, Numpy, Python, Jupyter, Panda, Matplotlib
- AWS EC2, MongoDB, Hadoop
- Launching gasoline mobile app product
- Collecting airfares data project.
- Managing a small team of 4 engineers
- Relation with business partner and investors
- Investment Pitching

Jun 2016 - Dec 2016
(7 month)

Python, SQL & Java data scientist - Coocha (YelloMobile)

(IT Shopping malls company, Seoul, South Korea)

Predict similar articles based on Image processing within the price comparison team.

- Features extraction : OBR algorithm from OpenCV
- Machine Learning : Weka Library in Java
- SQL queries to process directly images from URL.

Dec 2015 - May 2016 Java & C Programmer - University of Salford

Data Scientist - Parrot Drone research. Multi-objectives Reinforcement learning

- Learning the best path to reach one target using Q-learning (Markov decision process). Collaborate for a PhD Thesis. Prototyping on Matlab, testing with C++.

(6 month)

(Thesis, Healthcare industry, Manchester, United Kingdom)

Control Programming of a safe wheelchair for disabled by the fusion of a brain and muscular sensors.

- Features extraction
- Central Limit Theorem
- Artificial Intelligence Paradigms: Hierarchical Paradigm: Sense-Plan-Act
- Machine Learning
- Pattern Recognition
- Times Series
- Reinforcement Learning

Key achievements: Teamwork skills, Autonomy, Leadership, Programming

Jun 2015 - Aug 2015 **Team up with CEO - Slick Technologies Corp**
(3 month) *(Hardware Start-up in the Silicon Valley, the USA)*
Launching a crowdfunding campaign to bring this stabilizer for Gopro Camera to the market

- Teamed up with the CEO to launch a \$500k crowdfunding campaign

Key achievements: sense of initiative, excellent communication in English

Feb 2014 - Mar 2014 **Database Engineer - Arianespace**
(2 month) *(European commercial launch service)*
Database integration for the mechanical department:

- Learning about the European Space Agency in Kourou, French Guyana
- Collaboration with industrials as MT Aerospace, Airbus Defense and Space, Cegelec Space
- Database Integration

Key achievements: Organization, Mechanical knowledge, Communication

EDUCATION

2015 - 2016 **Master of Science in Robotics & Embedded System**
University of Salford, Manchester, United Kingdom

- Machine Learning & Genetic programming
- Model Prediction: Kaggle, Dataquest.io, classifiers from Scikit-learn (Random forest, linear regression, Logistic Regression).
- Learning Programming & Artificial Intelligence
- Statistical Methods for Data Analysis, T-Test
- Advanced Programming Algorithms

2013 - 2016 **Master's, Engineer's Degree in Mechatronics & Digital design**
Institute of Advanced Industrial Technologies, Bidart, France

- Computer Engineering Project
- Systems Engineering

Jan 2015 - Jun2015 **Exchange Bachelor in Applied Sciences, Computing Game Development, Digital Design**

University of Wolverhampton, United Kingdom

- Game programming C++, Unreal Engine 4

SKILLS & ADDITIONAL INFORMATION

- **French** native speaker, fluent in **English**, working knowledge in Spanish, **Korean** beginner.
- Software: Pycharm, Jupiter, IntelliJ, Virtual studio, MATLAB, Unreal Engine 4, CATIA V5
- Languages: Python, SQL, Java, C, C++, HTML, CSS, JQuery.