Clement Jambou

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Work and Research Experience

- **CEO, Chief Data Scientist and Co-founder at Unsupervised.ai** San Francisco/Shenzhen/Paris *2016-2020*

  Co-founded a robotics software company to enable factories to leverage digital technologies to transform their business and operating models.

  - **Team** Hired and managed a team of up to 8 engineers, technicians and designer between SanFrancisco, Shenzhen and Paris.
  - **Self-driving stack** Built a self-driving stack for Mobile autonomous robots, including SLAM,AMCL, and behavioral planning. Leveraged multiple state of the art tools including ROS,Python (Flask, Pandas, Numpy), React, MongoDb/DynamoDb.
  - **Production**: Built a product from scratch including prototyping (Mechanical, Electrical andSoftware) to 30-unit batch production and assembly.
  - **Skillset** : Proven track record in providing exceptional and transparent communication necessary to motivate team members, partners and investors. Performance history demonstrating the ambition and motivation necessary to deliver a product on-time with limited resources and a nimble team.
  - **Consulting** : Consulted clients on numerous projects involving Data engineering, Data science and algorithms.

- **Senior Data Scientist at Lyft** San Francisco *2014-2016*

  Marketplace Growth team, helped grow the team from 4 to more than 20 Data Scientists. Mapping/Self Driving team.

  - **Simulation** Build Simulation tool, used to guide business decision and optimize Marketplace algorithms, used by DS team daily.
  - **Dispatch** Algorithm: prediction and decision for optimal use of available drivers
  - **Dynamic Pricing**: real time price multiplier that account for demand prediction and available supply, to deliver optimal service.
  - Lyft Line **Matching** Algorithm: Match the passengers that have a similar route together, optimization of the dispatch decision to maximize sustainable discount compared to a classic ride.
  - **ETA prediction** Build state of the art performing ETA prediction model using Deep Neural Network.
  - **SLAM / Mapping** Build a scalable 3D mapping tool using Velodyne LIDAR and IMU/GPS.

- **Data Scientist Intern at Lyft** San Francisco *Summer 2013*

  - Modelization and Implementation of a positioning system to coach ride-sharing driver toward a better destination, using real-time demand and traffic estimation to minimize the time between two rides for a driver.
  - Experience with **Python**, **MongoDB**, parallelization and production on **Heroku**

- **Imperial College London** Department of Computing
  2013 - 2014
  - Research Project in Machine Learning and Optimization : " **Learning walking skills for modular Robots**"
  - Master's Thesis : Learning Music Representation using Recurrent Neural Networks and other Deep Learning Techniques (Summer 2014)
  - Courses : Bayesian Machine Learning, Deep Learning, Statistics, Optimization Algorithms, Data Modelling.

- **ISAE-Supaero, Bachelor project** Mathematics, Control and Computer Science Department
  June 2012
  - Design, programming and manufactoring of 4 devices for the 2012 Edition of the ASME Student Design Competition (American Society of Mechanical Engineers). The devices had to compete automatically an " Energy Relay " using differents energy sources for propulsion.

- **European Space Agency** Noordwijk, Netherlands
  Intern at the European Space Research and Technology Center (ESTEC) *July 2012*

  Telerobotics and Haptics laboratory:
  - Design of the covers of the X-Arm 2.0 Exoskeleton for its future use on board of the International Space Station

Education

- **Imperial College of London, Department of Computing** London, England
  Master of Science in Advanced Computing *2013 - 2014*
- **Institut Superieur de l'Aeronautique et de l'Espace** Toulouse, France
  Supaero Graduate Program *2011 - 2014*
  - BS in 2012
  - Major in Computer Science
- **Lycee Hoche** Versailles, France
  2009-2011

  Undergraduate Program in Mathematics, Physics and Computer Science for the competitive exams to the french " Grandes Ecoles " (top 7 %)

Awards & Honors

Speaker at PyData Paris 2015
1^{st} prize of the Student Design Robotics Competition of the ASME 2012
1^{st} European prize at the Old Guard Oral Presentation Competition 2012
Junior Fermat Prize in Mathematics 2010
1^{st} Prize with the French team for the International Tournament of Young Mathematicians . 2010
2^{nd} Prize of the academy of Versailles for Mathematics Olympiads 2008

Skills

Computer skills

- **Languages :** Python 2/3 (Pandas, Numpy, Theano, Tensorflow, PyTorch, Keras), C/C++ (OpenCv), Javascript(React + Graphql) Java, Caml, Delphi, XHTML/CSS, PHP/MySQL
- **Software :** Latex, Photoshop, 3D-CAD with CATIA, Fusion360, Maple, Matlab
- **Tools :** Git (Github), AWS(S3, Elastic beanstalk DynamoDb), PostgresSQL
- **OS :** Linux, Unix, Windows

Languages

- **French** *native language*
- **English** *fluent (Toefl-IBT : 105/120)*
- **German** *intermediate (Abitur Diploma)*

Interests

- **Music :** Cello, Guitar
- **Sports :** Athletics (Marathon : 2h53), Soccer, Mountaineering, Climbing
- **Campus Activities :** President of the Micro-drones club and Member of the Robotics Club at ISAE and Member of the Robotics Club at ICL