Clement Jambou

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Work and Research Experience

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

  Building Robots for Warehouses and Factories

  - **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.

- **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)

- **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), C/C++ (OpenCv), Javascript(React + Graphql) Java, Caml, Delphi, XHTML/CSS, PHP/MySQL
- **Software :** Latex, Photoshop, 3D-CAD with CATIA, Fusion360, Maple, Matlab
- **Teamwork :** Git (Github)
- **OS :** Linux, Unix, Windows

Languages

- **French** *native language*
- **English** *proficient (Toefl-IBT : 105/120)*
- **German** *proficient (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