Louis **DOUGE**

MASTER OF ENGINEERING · NATIONAL UNIVERSITY OF SINGAPORE · LOGISTICS AND ARTIFICIAL INTELLIGENCE

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"Be the change that you want to see in the world."

Education

National University of Singapore   *Singapore*

MASTER OF ENGINEERING - INDUSTRIAL & SYSTEMS ENGINEERING (DOUBLE DEGREE PROGRAM)   *Aug. 2016 - PRESENT*

- Vehicle Routing Problem with Stochastic Demand inspired by real logistics companies.
- Reinforcement Learning (OpenAI gym Python library), Large datasets on Traffic flow

ENSTA ParisTech (Master's degree, year 1) - "Grande École"   *Paris, France*

"DIPLÔME D'INGÉNIEUR" CURRICULUM   *Sept. 2015 - May 2016*

- Stochastic Calculus and Statistics for Finance
- Option Pricing using generic Monte-Carlo methods (C++) - Chess player program (C++)

ENSTA ParisTech (Bachelor's degree) - "Grande École"   *Paris, France*

"DIPLÔME D'INGÉNIEUR" CURRICULUM   *Sept. 2014 - June 2015*

- Double Major in Applied Mathematics and Mechanics
- Digits recognition using Kohonen Maps (Python) - Finite Element Method (Matlab)

Lycée Sainte-Geneviève (Bachelor's degree)   *Versailles, France*

"CLASSES PRÉPARATOIRES" - PREPARATORY CLASSES   *Sept. 2012 - Jul. 2014*

- Major in Mathematics, minor in Physics

Experience

New York University - Computer Science Department   *NY, USA*

RESEARCH INTERN - SUPERVISOR: BHUBANESWAR MISHRA   *May. 2016 - Jul. 2016*

- Simulated Natural Language Evolution through artificial dialogs
- Bayesian Echo Chamber, Kohonen Self-Organizing Map, Word2vec algorithm

Ignyta Inc. - Precision oncology company   *San Diego, USA*

SUMMER INTERN   *Jul. 2015 - Aug. 2015*

- Coded promotional movies dedicated to investors (PyMOL Python Library).
- Assisted a scientist for data collection from a synchrotron, and protein purification

Forum Trium - International Company Fair   *Paris, France*

VICE-PRESIDENT   *Jan. 2015 - Jan. 2016*

- Budget: €200K - 150 companies in Parc des Expositions, Paris.
- Team management, responsible for fire safety and security, promotion of the event

Technical Skills

Languages

- French: Native
- English: Full Professional Proficiency
- Spanish: Intermediate

Programming Skills

- Core Competences: Python (2.7 and 3.5), C++
- Others: Matlab, R, C, XHTML/CSS, SQL, Javascript

Computer Skills

- OS: Mac OSX, Linux (Ubuntu), Windows
- Git: https://github.com/doulouUS
- Latex, Microsoft Suite, Adobe Photoshop

Personal Interests

Hobbies include
- Ski (Competition level), Golf (licensed)
- Sailing (crew member & Sponsor manager at ENSTA's sailing association) see www.enstaquet.ensta-paristech.fr
- Mountain Trailing, Traveling (17 Countries)
- Photography and Classical Piano