Rachid Riad

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EDUCATION

ECOLE NATIONALE DES PONTS ET CHAUSSÉES: *Diplôme d'Ingénieur,* **equivalent to M.S.**
Paris, France
Sep 2013 – Aug 2017
- Major in Applied Mathematics and Computer Science. GPA: 3.8/4.0
- Relevant courses: Machine Learning, Computer Vision, Operations research, Advanced Statistics and data anlysis, Stochastic calculus, Computer Science (C++, Python)
  Admission: ranking 72 out of 3543 participants in competitive exams in *Math, Physics*

PROFESSIONAL EXPERIENCE

MapJam
Software engineering intern
San Francisco, USA
Nov 2015 – Aug 2016

Complex mapping application, using leaflet and various map providers to display highly customizable maps.
- Building platform to serve fast and beautiful vector map tiles from Open Street Map planet exports.
- Map design cartography.

Vehicle Data Science
Software engineering intern
Oakland, USA
Sep 2015 – Nov 2015

Vehicle Data Science makes driving safer and more efficient by extracting meaningful patterns from Vehicle position data, with application in self-drive car technologies and insurance scoring.
- Design algorithm to detect the type of intersections, and work on cleaning data.
- Improvement of the Graphical User Interface for customers with d3.js and leaflet.js for data visualization on the maps

MATHEMATICS LAB - CERMICS
Research intern
Paris, France
Apr 2014 - Jul 2014

Pricing and hedging of contingent claim in incomplete markets : American Put pricing
- Cox-Ross Model and Longstaff Schwartz models
- Conducted quantitative data analysis and brainstormed with team on results to develop new concepts.

SKILLS

LANGUAGES	French (native language), English (proficient)

INFORMATION TECHNOLOGY
- C++/Python
- OpenCV/Scikit-learn
- Git
- Node.js/Postgres/Postgis
- HTML/CSS/Javsacript/d3.js/leaflet.js
- Linux

RESEARCH PROJECTS
- Study of propagation of a bacteria, discrete, continuous, and hybrid methods (academic project) Implementation in C++
- Prediction of French Soccer League outcomes: Implementation in Python, with Sci-kit Learn library

LEADERSHIP
- Organization of the career fair of three of the best engineering schools in France: this career fair hosts 3000 participants and has a 700k€ turnover
- Basketball – Team Captain and practice at regional level for 10 years
- Student's Union – I have been part of the team elected at *Ecole des Ponts* to represent the students. I have organized the farewell trip for my school for 200 people, managing a 15-person team with a budget of 20k€.