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github.com/sds-dubois

Education

Stanford University (CA, USA)	2015 - 2017
Master's degree in Computational and Mathematical Engineering, Data Science Track	
École Polytechnique (Palaiseau, France)	2012 - 2015
Diplôme d'ingénieur (MS) in Computer Science and Applied Mathematics	GPA: 3.9/4
Lycée Hoche, Classes préparatoires (Versailles, France)	2010 - 2012
Intensive undergraduate program in science preparing for the national competitive exam to the French <i>Grandes Écoles</i> for scientific studies. Majors: Mathematics, Physics	GPA: 4.0/4

Relevant projects & work

Research internship at CSAIL, MIT (Cambridge, MA, USA)	March 15 - July 15
<ul style="list-style-type: none">Developed Bayesian optimization methods in Python to auto-tune machine learning pipelinesDesigned a new regression algorithm that improved upon Gaussian ProcessesReceived the <i>Research Internship Award</i> in Computer Science	
Face recognition (team of 2)	Oct. 14 - Jan. 14
<ul style="list-style-type: none">Developed C++ software to identify celebrities in photos using machine learning techniquesFocused on image analysis : extracting specific parts of the face, computing SIFT descriptors	
Evolutionary algorithms (team of 2)	May 14 - June 14
<ul style="list-style-type: none">Implemented and tested a new class of evolutionary algorithms in JavaDesigned such algorithms to efficiently solve complex optimization problems on graphs	
Data storage system distributed on a network (team of 3)	May 14 - June 14
<ul style="list-style-type: none">Built from scratch in Java a self-adaptive system enabling reliable storageChallenges tackled : parallel architecture, network communications, robustness	
Smart buildings (team of 6)	Sept. 13 - June 14
<ul style="list-style-type: none">Designed a Raspberry Pi platform to manage connected objects with conditional statementsIntegrated smart sensors at development stage despite poor documentation and code interfaceDesigned applications by processing the sensor's data to reduce energy consumption	

Work experience & leadership

Summer internship at ST Microelectronics (Greater Noida, India)	July 14 - Aug. 14
<ul style="list-style-type: none">In charge of STM's hardware integration for a start-up new home automation productDesigned and prototyped the ZigBee module in a multi-processor architecture	
IT consulting for XProjets, Junior Enterprise at the École Polytechnique	Sept. 13 - June 14
<ul style="list-style-type: none">Reviewed the information system of a charity, Designed a community portalIn a team of 4, studied car fleet and client management solutions for an innovative taxi service	
Leadership training in the French Army at Régiment d'Infanterie Chars de Marine (Poitiers)	Sept. 12 - April 13
<ul style="list-style-type: none">Supervised, managed and trained twenty soldiers	

Hobbies and interests

Technology enthusiast	Workflow optimization	Traveling
Enjoy discovering new tools and open source projects	Willing to investigate best workflows for programming, working, and in life, for fun and efficiency	India, Canada, Brazil, Mexico, Africa
Always eager to learn		Sports
		Swimming (competitive), Windsurfing

Skills

Programming languages	Computing	Foreign languages
Python, C++, Java, R	Git, LaTeX	French : mother tongue
SQL	Windows, Linux	English : full proficiency