

Sebastien Dubois

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Education

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| 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 , <i>Classes préparatoires</i> (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

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| 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, Publication in review | |
| 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

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| 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

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

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