

Laurie Lugin

Software engineer with a passion for machine learning

Currently living in Dublin, Ireland

Happy to relocate in Europe

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Skills

Software development

Python, C++, shell scripting, C, Java, SQL
Algorithms & data structures, Linux, VM
Source control, unit testing, agile

Data analysis

Machine learning techniques
Python libs for data: Numpy, Pandas, scikit-learn, bs4
Weka, MongoDB, IPython notebooks

Experience

Risk software engineer at RenaissanceRe, Dublin, Ireland

Jan 2012 – Dec 2013

- Developed and maintained an insurance risk-estimation software with my team.
- Rewrote the compensation software, improving speed, maintainability and extensibility.
- Designed a new data format for contract terms, replacing CSV with JSON. Wrote a migration tool to transform the legacy files into the new format.
- Developed from scratch a new software that generates different scenarios of human errors and estimates their impact, catering for various parameters such as profession, region and type of insurance.

Software engineer at Fermat, Montbonnot, France

June – Aug 2011

- Worked on a software that computes a safety-net threshold for bank loans.
- Updated the calculation and the database schema according to a new regulation.

Research assistant at Verimag Lab, Grenoble, France

Oct 2009 – Dec 2010

- Designed and implemented a method for comparing consumption models of wireless sensor networks.
- Studied the datasheet of the embedded radio device CC1100 to confirm the performance and capabilities of my implementation.

CS tutor at Joseph Fourier University, Grenoble, France

2008 – 2010

- Led 150 hours of tutorials and practical labs of 1st and 2nd-year university students: C programming, algorithms, regular expressions, automata.

Research intern at University of Toronto, Canada

Summer 2008

- Contributed to a software model-checker in collaboration with the formal methods research team.
- Conducted experiments to compare different approaches in terms of speed, memory and precision.

Education

Various online courses, including

2014

Passed: Game theory, R language, Machine learning, Data analysis and statistical inference

Audited: Data mining with Weka, Data wrangling with MongoDB

Ongoing: Practical machine learning, Natural language processing

M.Sc. on Computer Science, minor on Artificial Intelligence

June 2009

Joseph Fourier University, Grenoble, France. With high honours (80+%).

Relevant coursework: Machine learning, Knowledge representation and inference, Semantic web.

Magistère on Computer Science

June 2009

Joseph Fourier University, Grenoble, France. With high honours (80+%).

Magistère is an excellence course offered to best students with emphasis on research.

Hobbies

Badminton, via ferrata, ski, juggling, cycling, guitar.