Laurie Lugrin

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Skills

Languages	Proficient in: Python (Numpy, Pandas, Scikit), C++ Familiar with: Java, SQL, shell scripting, Javascript, R, Octave/Matlab, LaTeX		
Platforms	Linux	**Software**	Git, Mercurial, VMware, Pycharm, Eclipse, Emacs
Methodologies	Agile, Scrum	**Theory**	Model-checking, Machine learning

Experience

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:
R language. Johns Hopkins University. With distinction (100%). June 2014
Game Theory. Stanford University. With distinction (100%). Jan 2014

M.Sc. on Computer Science, minor on Artificial Intelligence June 2009
Joseph Fourier University, Grenoble. With high honours (80^{+}%).
Relevant coursework: Machine learning, Knowledge representation and inference, Semantic web.

Magistère on Computer Science June 2009
Joseph Fourier University, Grenoble. 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.