Luc Sarzyniec
Software Engineer

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Experience

Nov. 2017
Present

Senior software engineer — Qwant
Tech leader in a team of the shopping dept. of the Qwant European search engine working on product classification.
‣ Python, flask, REST, product classification, word embedding

Sept. 2014
Nov. 2017

Senior software engineer — Xilopix
In charge of the Parallel Processing department in the team that develops the Xilopix search engine's core. Developed from scratch a distributed computing framework and bootstrapped a distributed web crawler/scraper.
‣ distributed computing, web crawling/scraping, machine learning
‣ Ruby, Python, RabbitMQ, Redis, Elasticsearch, MongoDB

Oct. 2013
June. 2014

System engineer — Inria
Administration, improvement and development of the Grid'5000 experimental platform composed of a thousand nodes dispatched on 30+ clusters localised in 10+ sites.
‣ Ruby, Puppet, large scale & parallel experimentation, HPC admin.

Oct. 2011
Oct. 2013

Software engineer — Inria
Maintained and improved the Kadeploy3 deployment solution. The software is used by administrators to automatically and quickly install and configure OS images on hundreds of nodes.
‣ Ruby, REST, MySQL, MaaS, PXE, disk cloning, parallel prog.

Feb. 2011
Sept. 2011

Junior engineer — Loria
Developed the Distem emulation software that's used to transform a homogeneous cluster into a platform where nodes may have different performances and network topologies.
‣ Ruby, C, containers, software emulation, traffic shaping

Apr. 2010
Aug. 2010

Intern — Université de Lorraine
Studied reinforcement learning of a complex task by splitting it into several sub-tasks. Simultaneous improvement of motion and sensing skills of an agent. Practical application on a robot.
‣ C++, neural networks, reinforcement learning, Q-learning

Apr. 2007
Jun. 2007

Intern — University of Wales (UK)
Setup and benchmark of an open-source Information System.

Education

2010 – 2011

Master of research in Computing Sciences
Cum laude, Science Faculty, Université de Lorraine

2007 – 2010

Master of Computer Engineering
TELECOM Nancy, Université de Lorraine

2005 – 2007

DUT in Computing Sciences
University Institute of Technology, Université de Lorraine

Computer skills

Development
Ruby, Python, Crystal, C, Java, REST

Backends
*RabbitMQ, Redis, Elasticsearch, *SQL, MongoDB, JanusGraph*

Machine learning
NN, RL, Q-Learning, HMM

Development tools
Git, Docker, GitHub, Gerrit, Jenkins

Software engineering
CI, code review, automation, test units, open-source, versioning

System
Shell, containers, virtualisation, Linux, systemd, packaging, Docker, LXC, k8s

Scientific contributions
1 journal, 4 articles, 2 challenges

Language skills

French: native
English: full professional prof.
German: elementary

Interests

New technologies
Free and open-source software
Video games, raid leading
Board and role playing games

Additional information

Driving license

References

Sébastien Demange, *Qwant*
Cyril March, *Xilopix*
Laurent Vallar, *Xilopix*
Emmanuel Jeanvoine, *Inria*
Lucas Nussbaum, *Loria*