

# 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, 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 a distributed web crawler/scrapper.  
▸ 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, large scale & parallel experimentation, HPC administration

Oct. 2011  
Oct. 2013

### Software engineer — Inria

Maintained and improved the Kadeploy3 deployment solution. It's 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

### Programming

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

### Quality assurance

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

### System

Shell, containers, virtualisation, GNU/Linux, systemd, packaging, deployment

### 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*