

# Luc Sarzyniec

## Software Engineer

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 www.olbat.net

## Experience

*Nov. 2017*  
*Present* **Senior software engineer — Qwant**  
Tech leader in a team of the shopping department of the Qwant European search engine.

*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.

*Oct. 2013*  
*June. 2014* **System engineer — Inria**  
Administration and improvement of the Grid'5000 experimental platform (composed of a thousand nodes dispatched on 30+ clusters localised in 10+ sites).

*Oct. 2011*  
*Oct. 2013* **Software engineer — Inria**  
Maintained and improved the Kadeploy3 deployment solution. The solution is composed of a set of tools for cloning, configuring and managing computer cluster's nodes. It's used by administrators to automatically and quickly install OS images on hundreds of nodes.

*Feb. 2011*  
*Sept. 2011* **Junior engineer — Loria**  
Developed the Distem emulation software that's used to transform a homogeneous cluster into an experimental platform where nodes may have different performances and are linked through complex network topologies.

*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 and testing on a robot.

*Apr. 2007*  
*June. 2007* **Intern — University of Wales (UK)**  
Setup and benchmark of an open-source IS.

## 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

Available upon request