

Simon Désaulniers

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Professional experience

May 2015 – Today **Computer science researcher and programmer analyst**, *Savoir-faire Linux*.
GNU/Ring development ^a, an audio/video and chat communication software. Conception and implementation of multiple solutions :

- Distributed indexation over a distributed hash table (DHT);
- Group chat communication protocol over a DHT;
- Data persistence feature on OpenDHT;
- Pseudo-SQL query feature on OpenDHT;

Development and maintenance of OpenDHT ^b.

^a. <https://ring.cx>

^b. <https://github.com/savoirfairelinux/opendht>

Summer 2012 – April 2015 **Mathematics and Computer Science research assistant**, *Université du Québec à Trois-Rivières*.

Supervised by Alexandre Blondin Massé PhD and Alain Goupil PhD. Contribution to polyominoes enumeration problem ^a.

^a. <https://bitbucket.org/ablondin/polyenum>

Summer 2011 **Trainee in Software engineering**, *Johnston-Vermette Groupe Conseil, Inc*, Trois-Rivières.

Execution, writing, analysis and correction of non-regression test scripts on Hydro-Québec Gentilly-2 nuclear plant computer systems.

Publications

2017 **Fully Distributed Indexing over a Distributed Hash Table**, *Springer*.
Conference : *The Third International Symposium on Ubiquitous Networking*, 2017

Education

2016 – Today **Master's degree in Computer Science**, *Université du Québec à Montréal*.
Algorithmic and Security of distributed systems.

2010 – 2015 **Double Bachelor's degree in Mathematics and Computer Science**, *Université du Québec à Trois-Rivières*.

Personal projects

2016 **Google Summer of Code 2016, DebConf 2016, 2017.**

2014 – Today **Contribution to multiple GNU/Linux distributions.**
Maintenance of packages on ArchLinux, Debian, Ubuntu.

Particular knowledge

Langues Français, Anglais

Concepts Free Software, Algorithm optimisation, distributed systems, distributed hash table, Blockchain, (Bitcoin, Ethereum, etc.)

Programming C++, C, Python, Java, C# (Mono/.NET), HTML/CSS, PHP/SQL, Javascript,
Languages GNU Make, CMake, Bash, L^AT_EX

Operating GNU/Linux (ArchLinux, Debian, Ubuntu), Android
systems