Simon Désaulniers

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Professional experience

May 2015 – Today

Research 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 ;
Development and maintenance of OpenDHT [b].

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a. `https://ring.cx`
b. `https://github.com/savoirfairelinux/opendht`

Summer 2012 – April 2015

Mathmematics 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].

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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 Languages	C++, C, Python, Java, C# (Mono/.NET), HTML/CSS, PHP/SQL, Javascript, GNU Make, CMake, Bash, LaTeX
Operating systems	GNU/Linux (ArchLinux, Debian, Ubuntu), Android