# Nicolas LAURENT
## Software Engineer, PhD

## Contact

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Driving License: ✓                            Remote: ✓ / Relocate: ?

## Education & Experience

### PhD in Computer Science

Université Catholique de Louvain, Belgium      **February 2014 - September 2019 (Prevision)**

My thesis, *"Principled Stateful Parsing"* explores how adding custom code to parser specifications enables overcoming many practical challenges in the field, and how to mitigate the downsides.

Teaching assistant in *"Cloud Computing"*, *"Project 4 in Computer Science"* (Android programming) and *"Programming Paradigms"*.

### iOS Developer

Famest, Louvain-La-Neuve, Belgium              **September 2013 - February 2014**

I overhauled the Famest iPhone app in order to improve reliability and maintanably, and transitionned it towards iOS 7.

### Bachelor & Master in Computer Science

Université Catholique de Louvain, Belgium      **September 2008 - September 2013**
Grade: Magna Cum Laude

Double major in networking & security and software engineering.

Teaching assistant in *"Computer Science II"* (functional programming) and *"Computer Systems I"*.

## Technologies

### Core

Java    Kotlin    C    Ruby    Javascript    Git    HTML & CSS

### Experienced

Android    iOS    C#    C++    Python    Lua    Bash    SQL    Build Systems: Make, CMake, Maven, ...

Of course, I'm willing and able to learn more!

# Publications

**Red Shift: Procedural Shift-Reduce Parsing**
Nicolas Laurent
*ACM SIGPLAN Conference on Software Language Engineering (SLE) 2017; Vancouver, Canada*

**Taming Context-Sensitive Languages with Principled Stateful Parsing**
Nicolas Laurent and Kim Mens
*ACM SIGPLAN Conference on Software Language Engineering (SLE) 2016; Amsterdam, The Netherlands*

**Parsing Expression Grammars Made Practical**
Nicolas Laurent and Kim Mens
*ACM SIGPLAN Conference on Software Language Engineering (SLE) 2015; Pittsburg, USA*

**SDLoad: An Extensible Framework for SDN Workload Generation.**
Nicolas Laurent, Stefano Vissichio and Marco Canini
*ACM SIGCOMM Workshop on Hot Topics in Software Defined Networking (HotSDN) 2014; Chicago, USA*

**A PEG-Based Macro System for Java**
Nicolas Laurent
*Master Thesis*

# Spoken Languages

**French**   Native Speaker

**English**   Advanced Professional Proficiency (ILR-4+)

**Dutch**   Limited Working Proficiency (ILR-2)