Nicolas LAURENT
Software Engineer, PhD

Contact

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Education & Experience

Research & Development Engineer, Oracle Labs

Remote, from Belgium   **December 2019 - Current**

Working on the GraalVM project, and in particular the implementation of TruffleRuby.

PhD in Computer Science

Université Catholique de Louvain, Belgium   **February 2014 - October 2019**

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

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)