Étienne Laurin

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WORK

Nitro
2017-2023

Principal software engineer for a large enterprise C++ application. Tech lead for integrations with SharePoint, iManage and eSign. Spearheaded the Linux and macOS port. Largest contributor to the developer wiki and to the weekly Show&Tell presentations. Goto person for Git, CMake and C++ template issues. Remembered for deleting more code than I wrote.   *C++, Java, CMake, Python, Go, Scala, Docker, HCL, Groovy*

Soundemote
2017

Audio signal analysis, synthesis and visualization   *C++*

RethinkDB
2013-2016

In charge of the build and packaging system, the test suite and the Windows port. Played key role in query language design.   *C++, JavaScript, Java, Ruby, Python, Bash, Make, Haskell, Nix*

TVA Publications
2010-2012

For Canada's largest magazine publisher, maintained the nationwide daily TV schedule generator. Improved the quality and efficiency of data ingestion, data entry and graphic design.   *C++, C, PL/SQL, Java, XSLT, AppleScript*

ProGeo and Geosphair
2009-2012

Created software for converting, analyzing and presenting geographic and geological data.   *Python, Visual Basic, JavaScript, IDL*

Insum Solutions Inc
2009

Designed and implemented software for accurately and efficiently converting from Pro*PL/1 to PL/SQL   *C++*

OPEN SOURCE PROJECTS

Haxpuck
2011-2012

A map editor for online games.   *JavaScript*

Haskell libraries
2011-2013

Type-level programming (guess-combinator, type-prelude) and developer tools (cabal-ghci). *Haskell*

HIM Cellwriter
2010

Handwriting recognition for Nokia phones.   *C*

Tomy
2008

An IRC Bot for evaluating Prolog.

OPEN SOURCE CONTRIBUTIONS

Code for Charlotte
2016-2017

Helped the local government automate programs such as Christmas gift baskets and Adopt-a-Street.   *Ruby, JavaScript, PHP*

GHC
2009-2012

Wrote the first implementation of deferred type errors and beta-tested PolyKinds and DataKinds. Earned a mention in the ICFP 2012 paper "Equality proofs and deferred type errors".   *Haskell*

NixOS
2016-2021

Contributed new packages, package updates and performance improvements.   *Nix, C++*

Other

Lean	Beta testing	*Lean, C++*
RapidJSON	Fixed missing nulls	*C++*
Serge	Fixed RC parsing	*Perl*
IPFS	Fixed bugs and improved UI	*Go*
Chrome	Fixed favicon rendering	*C++*
Homebrew	New packages and updates	*Ruby*
GCC, Clang	Reported multiple bugs	*C++*

EDUCATION

University of Montreal
2006-2009

Studied for a bachelors degree in Computer Science in the honors program.

Parallel computing lab
2007

As a summer intern, developed a code compaction (reverse inlining) phase for the PicoBIT and Gambit-C compilers.   *Scheme, C, Assembly*

TEACHING

SUPINFO University
2009-2010

Taught the courses on *Arithmetic and Cryptography* and *Ethical Hacking and Countermeasures*.

University of Montreal
2006-2009

Taught the *UNIX seminar*, a class for freshmen Computer Science students on how to use the Linux-based lab computers.