Jacob Chvatal

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Education

BSc in Computer Science
Northeastern University, expected 2022

Employment

Software Engineer   **Igalia SL**   **2016-Current**

▶ Contributing to WebAssembly implementations in web browsers.
▶ Implemented high-speed user-space networking using Snabb & LuaJIT.

Research Assistant   **Northeastern University**   **2010-2016**

▶ Designed & implemented a gradual type system to allow users to add optional type annotations for OO code in Typed Racket. In production use at a startup.
▶ Led a team designing a novel performance evaluation method for gradual typing. Evaluation method led to performance gains, one user reported 20% speedup.
▶ Supervised two MS students in adding features to Typed Racket. The two topics are support for first-class modules and for contracts/higher-order assertions.

Free/Open Source Software Development

▶ Have maintained 10+ libraries, 2 tools, and have contributed to many projects.
▶ Core developer for the Racket language & maintains a Racket PPA for Ubuntu.

Github: http://github.com/takikawa

Community Service and Leadership

▶ Organized RacketCon 2013. Managed audio/visual for RacketCon in 2014, 2015.
▶ Local organizer for IFL 2014 conference in Boston.
▶ Program committee member for the FOOL 2014 workshop.
▶ Artifact evaluation committee member for the OOPSLA 2015 conference.

Languages, Technologies, and Tools

▶ Racket, Scheme, Java, C, Haskell
▶ Git, Subversion, Vim, Emacs, Linux, Docker, Packer