Ambrose Bonnaire-Sergeant Last update on November 23, 2018

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Summary

I design and implement sophisticated development tools for working programmers. My main focus has been creating Typed Clojure, an optional type system for Clojure.

While developed in an academic setting, Typed Clojure has seen wide use in industry. My efforts in sustaining this have formed a solid basis for my technical

skills, as well as opportunities to hone my communication skills through dozens of talks, designing three successful crowdfunding campaigns, and experience in leading small teams.

I'm looking to further apply and expand on these lessons by working with teams excited to craft world-class developer experiences.

Software Development Experience

Lead Developer for Typed Clojure

2011 — present

- designed and implemented an optional type system for Clojure, written in Clojure
- contributed bug fixes and features in over 2,300 commits (over 380k lines of changes), 160 releases
- provided consulting support for industry usage (CircleCI)
- developed plugins for Vim, Emacs, Lein, and Boot
- crowdfunded over \$50,000 to support development (incl. CircleCI, Walmart Labs, and Cognitect)

Software Intern

Sparkfund, May 2017 — Febuary 2018

- enhanced tooling for sales team, including monthly pricing reports, and interactive pricing tools
- parallelized the CI builds of several projects with a migration to CircleCI 2.0 Workflows
- completed company-wide upgrade to a version of Clojure with breaking changes
- worked remotely; used Clojure, ClojureScript, om.next, Google Sheets, Salesforce, Asana, Boot

Other Experience

Student Academic Appointee

Indiana University Bloomington, Fall 2014—present

- produced papers about Typed Clojure and clojure.spec
- taught undergraduates introductory programming and introductory data structures

Education

Indiana University Bloomington
Computer Science Ph.D. (candidate)
Master of Science in Computer Science
University of Western Australia

BSc in Computer Science with Honours

Bloomington, Indiana
Fall 2014 — Spring 2019 (expected)
2014 — 2017
Western Australia, Australia
2008 — 2013

Selected Open Source Contributions

Clojure, ClojureScript, core.match

Selected Talks

Tool-assisted spec Development (Video) Practical Optional Types for Clojure (Slides) Typed Clojure in Practice (Video) Introduction to Logic Programming (Video) Clojure/conj 2017 ESOP 2016 Strangeloop 2014 Clojure/conj 2011

Skills

Proficient in Clojure. Some experience with Java, C, Racket, Scheme, Coq, and Agda.

Personal

I live in Bloomington, Indiana and have a US work permit.