Ambrose Bonnaire-Sergeant *Last update on November 24, 2018*

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Summary

I design and implement sophisticated development tools for working programmers. Now that I am completing my Ph.D. thesis on Typed Clojure, I'm looking apply my rigorous training and expertise in industry.

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)
- mentored 5 Google Summer of Code students

Software Developer (Remote)   Sparkfund, *May 2017 — Febuary 2018*

- enhanced interactive pricing estimation tools using ClojureScript and om.next
- produced internal pricing reports in collaboration with sales team using Clojure and Google Sheets
- 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

Other Experience

Research Assistant / Assistant Instructor   Indiana University Bloomington, *Fall 2014—present*

- published peer reviewed papers about Typed Clojure and clojure.spec
- taught undergraduates introductory programming and introductory data structures

Education

Indiana University Bloomington	Bloomington, Indiana
Ph.D. in Computer Science	*Spring 2019*
Master of Science in Computer Science	*2017*
University of Western Australia	Western Australia, Australia
BSc in Computer Science with Honours	*2013*

Selected Open Source Contributions

Clojure, ClojureScript, core.match

Selected Talks

Tool-assisted spec Development	Clojure/conj 2017
Practical Optional Types for Clojure	ESOP 2016
Typed Clojure: From Optional to Gradual Typing	Strangeloop 2015
Typed Clojure in Practice	Strangeloop 2014
Typed Clojure	Clojure/conj 2012
Introduction to Logic Programming	Clojure/conj 2011

Programming languages

Proficient in Clojure. Experience with Java, C, Racket, Coq, and Agda.

Community

- Google Summer of Code Administrator for Clojure (2014-2015)
- organizer of PL Wonks, Indiana University's weekly Programming Languages seminar (2017-)