Ambrose Bonnaire-Sergeant Last update on April 26, 2019

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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
Ph.D. in Computer Science
Master of Science in Computer Science

Bloomington, Indiana Spring 2019 2017

University of Western Australia

Western Australia, Australia

BSc in Computer Science with Honours

Selected Open Source Contributions

Clojure, ClojureScript, core.match

Selected Talks

Tool-assisted spec Development

Practical Optional Types for Clojure

Typed Clojure: From Optional to Gradual Typing

Typed Clojure in Practice

Typed Clojure

Typed Clojure

Typed Clojure

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-)