

Carl J. Factora

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Education

Indiana University

Computer Science/English Literature, GPA 3.42

Bloomington, IN

Aug 2012–May 2016

The Recurse Center NYC

Hacker School

New York, NY

February 2017–Current

Learned web development techniques, pair programming practices, and contributed to open source projects.

Experience

Computer Science Instructor

Indiana University

Bloomington, IN

Jan 2014–Dec 2016

Courses included topics related to functional programming and programming language theory. Contributed course material and taught labs/lectures. Associate/undergraduate instructor for:

- CSCI-B490: "Advanced Functional Programming (FP)" - FP concepts and Haskell design techniques
- CSCI-P423/B523: "Compiler Implementation" - Incremental compiler design in Racket
- CSCI-C311/B532: "Programming Language Concepts" - Systematic approach to programming languages
- CSCI-C211: "Introduction to Computer Science"

Undergraduate Researcher

Daniel P. Friedman

Bloomington, IN

May 2015–Jul 2015

Influenced course material for CSCI-C311. Presented a talk on Martin-Löf Type Theory and dependent types.

Projects.....

Project Lamp

Interactive Online Book

New York, NY

Feb 2017–Current

Author and co-creator of an online interactive book teaching functional programming in PureScript.

Hermes

Speed Reader App

New York, NY

April 2017–Current

Created in Elm. Configurable to handle specially formatted text (i.e., headers and code examples).

Essentials of Compilation: An Incremental Approach

Compiler Design Textbook

Bloomington, IN

Oct 2015–May 2016

Contributed to a compiler textbook by Jeremy Siek used for course material in CSCI-P423/B523.

Introduction to Dependent Types

Indiana University Logic Seminar

Bloomington, IN

Oct 2015

Presented at Indiana University's Logic Seminar on dependent types and the Calculus of Constructions.

Proficiencies

Haskell, Elm, PureScript, Agda, Racket/Scheme, Python, C, Java