Carl J. Factora

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Education

Indiana University   **Bloomington, IN**
Computer Science/English Literature, GPA 3.42   *Aug 2012–May 2016*
Coursework included compiler design, programming language theory, and functional programming.

The Recurse Center NYC   **New York, NY**
Hacker School   *February 2017–May 2017*
Learned web development techniques, pair programming practices, and contributed to open source projects.

Experience

Software Developer   **New York, NY**
Droit Financial Technologies, LLC   *Aug 2017-Present*
Designed a low-latency decision API for navigating financial regulatory laws. Developed internal DSLs and compilers to maintain and develop a financial tool used in the world's largest banks.

Associate Instructor   **Bloomington, IN**
Indiana University   *Aug 2016-Dec 2016*
CSCI-B490: "Advanced Functional Programming (FP)" course - FP concepts and Haskell design techniques.

Undergraduate Instructor   **Bloomington, IN**
Indiana University   *Jan 2014-May 2016*
- 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   **Bloomington, IN**
Daniel P. Friedman   *May 2015–Jul 2015*
Research topics included the Calculus of Constructions, Martin-Löf Type Theory, theorem provers and dependent types. Influenced future course material for CSCI-C311 and CSCI-B629.

Projects

Project Lamp   **New York, NY**
Interactive Online Book   *Feb 2017–Current*
Author and co-creator of an online interactive book teaching functional programming in PureScript. Leveraged the utility of a static-site generator, Jekyll, to allow the seamless creation of book content.

Essentials of Compilation: An Incremental Approach   **Bloomington, IN**
Compiler Design Textbook   *Oct 2015–May 2016*
Contributed to a compiler textbook by Jeremy Siek used for course material in CSCI-P423/B523.

Introduction to Dependent Types   **Bloomington, IN**
Indiana University Logic Seminar   *Oct 2015*
Presented at Indiana University's Logic Seminar on dependent types and the Calculus of Constructions.

Proficiencies

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