

BENJAMIN GREENMAN

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EDUCATION

Cornell University

Master of Engineering, Computer Science
Bachelor of Science, GPA 3.47 (2010 – 2013)

Expected May 2014

Hudson Valley Community College

GPA 3.78
Phi Theta Kappa National Honor Society

2009 – 2010

EXPERIENCE

Research Assistant, Cornell University

Ithaca, NY

Summer 2013 – Present

Worked with Professor Ross Tate to determine the feasibility of a new construct for object-oriented languages. Analyzed the inheritance hierarchy of millions of lines of open source Java code to analyze existing practice and assess the work needed to implement the redesign. Currently working to prove the decidability of subtyping given the new feature.

Software Engineer, Rentenna Inc.

New York, NY

Summer 2012 – Present

Implemented RESTful api for growing startup. Wrote an extensive library of HTML and XML crawlers. Designed caching abstraction to enrich local database with dynamic external resources. Published user-facing web page features and modules. Gained experience with unit-testing frameworks and a branching Git model.

Teaching Assistant, Cornell University

Ithaca, NY

Spring 2012 – Present

Introduced undergraduate students to functional programming. Designed and released both assignments and exam questions. Wrote test harness framework for the OCaml language, tailored it to suit our need for automatic grading. Interacted extensively with students in one-on-one and classroom settings. Helped manage a staff of approximately 20 teaching assistants.

COURSEWORK

Operating Systems

Algorithm Design

Information Networks

Compilers

Programming Languages

Organizational Behavior

Functional Data Structures

Policy Analysis

Computer Organization

Abstract Algebra

Entrepreneurship

Object-Oriented Design

QUALIFICATIONS

Programming Languages: Python, OCaml, SQL, Coffeescript, Sass, Java, Haskell

Libraries and Tools: Emacs, GIMP, Git, L^AT_EX, MongoDB, Scrappy, SQLAlchemy, XPath

Other: 35 video game world records, 3rd place Pennsylvania State Birling championship