

# BENJAMIN GREENMAN

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phone: 936.666.1126    email: blg59@cs.cornell.edu

## 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

Programming Languages

Computer Organization

Algorithm Design

Organizational Behavior

Abstract Algebra

Information Networks

Functional Data Structures

Entrepreneurship

Compilers

Policy Analysis

Object-Oriented Design

## QUALIFICATIONS

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

**Libraries and Tools:** Emacs, GIMP, Git, L<sup>A</sup>T<sub>E</sub>X, MongoDB, Scrappy, SQLAlchemy, XPath

**Other:** 35 video game world records, 3<sup>rd</sup> place Pennsylvania State Birling championship