

BENJAMIN LEE GREENMAN

phone: 936.666.1126

email: blg59@cs.cornell.edu

EDUCATION	Cornell University Master of Engineering, Computer Science, GPA 3.52	2013 – 2014
	Cornell University Bachelor of Science, GPA 3.47	2010 – 2013
	Hudson Valley Community College GPA 3.78 Phi Theta Kappa National Honor Society	2009 – 2010

EXPERIENCE	Research Assistant, Cornell University	Summer 2013 – Fall 2014 Ithaca, NY
	<i>(Summer 2013 – Summer 2014)</i> Worked with Professor Ross Tate to determine the feasibility of a new construct for object-oriented languages. Analyzed the inheritance hierarchy of over 13 million of lines of Java code across 60 open source projects to analyze existing practice and assess the work needed to implement the redesign. Presented findings at PLDI '14. <i>(Summer 2014 – Fall 2014)</i> Building on the previous work, designed a type system for adding conditional inheritance to object-oriented languages with generics. Overcame challenges of decidability and soundness to create a practical, language-independent formalism.	
	Software Engineer, Rentenna Inc.	Summer 2012 – Winter 2013 New York, NY
	Implemented REST-ful 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	Spring 2012 – Spring 2014 Ithaca, NY
	Introduced undergraduate students to functional programming. Designed assignments and exam questions. Wrote a test harness in the OCaml language to automate 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	Awards: Cornell Teaching Award, 2014 & 2013		
	Programming Languages: Python, OCaml, SQL, Coffeescript, Sass, Java, Haskell		
	Libraries and Tools: Emacs, GIMP, Git, L ^A T _E X, MongoDB, Scrappy, SQLAlchemy, XPath		
	Other: 35 video game world records, 3 rd place Pennsylvania State Birling championship 2014		