

BENJAMIN LERNER

(516)-512-3913 ◇ benjamin.lerner@columbia.edu ◇ New York, NY
github.com/bensenberner

EDUCATION

Columbia University – The Fu Foundation School of Engineering and Applied Science Expected May 2017
B.S. in Computer Science — GPA: 3.57; Major GPA: 3.76; Dean's List

Relevant Coursework: Advanced Programming in C/C++, Introduction to Combinatorics/Graph Theory, Computer Science Theory, Web Development (Node.js, AngularJS), Design and Agile Project Management, Python for Engineers, Principles of Innovation and Entrepreneurship

TECHNICAL STRENGTHS

Programming Languages	Python, Go, Ruby, Java, C, Javascript, C++
Tools/Platforms/Databases	Ruby on Rails, Elasticsearch, Tornado, *nix, Vim, zsh, Git, L ^A T _E X, PostgreSQL, Photoshop, HTML, CSS, AngularJS, Node.js

PROFESSIONAL EXPERIENCE

Columbia University <i>Teaching Assistant for COMS 3101 - Programming Languages: Python</i>	New York, NY <i>September 2015 - Present</i>
---	---

- Write scripts to automatically test and grade programming assignments
- Field student questions during weekly office hours and correspond via email/Piazza

Bitly <i>Application Engineering Intern</i>	New York, NY <i>June 2015 - September 2015</i>
---	---

- Remapped Elasticsearch indices by building an internal tool in Python and Go
- Minimized space complexity of Elasticsearch migration operation without disrupting user functionality
- Improved user link search results by rewriting querying in Go
- Devised a temporal logarithmic decay function to more accurately assign relevancy scores to old links
- Implemented custom Slack integrations to provide notifications for daily infrastructure activity

Spectator Publishing Company <i>Senior Software Developer</i>	New York, NY <i>October 2014 - May 2015</i>
---	--

- Built backend for a course information and schedule planning site currently used by thousands of Columbia students
- Added major requirements tracking, professor reviews, class enrollment statistics, and class swapping capabilities, resulting in a 65% increase of users over one semester
- Managed three teams of junior developers working on academic and student life information platforms; held biweekly meetings to assess progress, manage deadlines, and provide technical mentorship
- Lead a two-week long onboarding bootcamp to introduce new developers to codebase and tech stack
- Created a more intuitive user interface of on-campus printing service to drive traffic, resulting in increased ad revenue

PROJECTS

social.io – Angelhack Brooklyn Utilized HP's IDOL OnDemand sentiment analysis API to analyze samples of online communications to construct lists of recommended conversation topics. Plugged this functionality into both a chrome extension for Facebook Messenger as well as an ionic app for Android	<i>June 2015</i>
---	------------------

Symphony Trends – CodeGS at Goldman Sachs Used the Symphony Firehose API to create an extension for tracking topic trends in real time and making hourly posts of the most popular subjects. Was selected as a top 10 project	<i>February 2015</i>
---	----------------------

HONORS & AWARDS

Edward A. Morse Writing Award	<i>Spring 2013</i>
2 nd Place, NY State Science and Engineering Fair	<i>Spring 2013</i>
2 nd Place in General Biology, WAC Invitational Science Fair	<i>Spring 2012</i>
Certificate for Excellence in Writing	<i>Spring 2012</i>