

# Luke Carlson

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## University of Pennsylvania

Philadelphia, PA

### School of Engineering and Applied Science, *Computer Science Major* (B.S.E. 2017)

Recent Courses include: Database and Information Systems, Computer Operating Systems, Machine Translation, Crowdsourcing and Human Computation, Advanced Spanish. **GPA: 3.68** (*Dean's List 2014-2015*).

**Campus Involvement:** PennApps Sponsorship Committee Representative/Competitor, Swing Dance Group Member, PennQuest Hiking Group Member.

**Technical Skills:** Javascript, Java, Python, C, (No)SQL, Ruby, OCaml, HTML/CSS, PHP, git, Final Cut Pro and Photoshop

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## Ruse Laboratories

New York, NY; Buenos Aires, Argentina

### *Project Manager*, Summer 2015

- Led the design and implementation of a data visualization product (MeteorJS, MongoDB, d3).
- Built and documented robust RESTful API (NodeJS, MongoDB).
- Designed a Content Management System for Virtual Reality videos.
- Collaborated with clients including Thiel Foundation, Carnegie Museums.

## UPenn Computer Science Department

Philadelphia, PA

### *Project Manager*, Fall 2015 - Present

- Mentor groups of graduate students as they develop applications in *CIS 573: Software Engineering*.

### *Teaching Assistant*, Fall 2014 - Spring 2015

- Directed weekly recitations for second level CIS course *CIS 120: Programming Languages and Tech*.
- Held regular office hours, graded assignments and exams and attended weekly professor meetings.

## Ruse Laboratories

Philadelphia, PA

### *Freelance Developer*, Fall 2014

- Designed and executed the restyling of N.J. Congressional candidate Roy Cho's website.
- Collaborated with the campaign manager and head of content to iterate on aspects of site.
- Played a role in the redesign effort for Galore magazine and modeling agency.

## Appboy, Inc

New York, NY

### *Software Engineering Intern*, Summer 2014

- Updated the backend of product documentation and training sites to improve customer support.
- Built web interface to allow image push notifications for Android devices to be sent to millions of users.
- Headed the integration of new Kindle Platform into core product.

## Appboy, Inc

New York, NY

### *Web Development Intern*, Summer 2013

- Customized website and built tools to streamline workflow and incorporate marketing team requests.
- Showcased product development and relevant research in regular presentations to management.
- Edited official company blog; Wrote guest post, "5 Easily Avoidable Design Mistakes in iOS Apps."

## Recent Notable Work

**Duty Reporter** Commissioned by the Hospital of the University of Pennsylvania to make app that simplifies the duty hour reporting process for residents and program directors.

**Machine Translation Research** Targeted a low resource language in machine translation (Telugu) and compiled a bilingual dictionary, monolingual data dump, language ID system and a transliteration program.

**DoYouBelieve** Developed a gamified political trivia and polling application to fact check candidate statements with crowdsourcing; user data fuels a study in believability.

**Daux.io** One of main contributors to a Markdown documentation generator written in PHP. Selected to be part of a University of Pennsylvania study on prolific open source contributors.

**Web site:** <http://www.jlukecarlson.com> Programming samples at [www.github.com/jLukeC](http://www.github.com/jLukeC)

## Other Skills and Interests

Avid reader. Enjoy basketball and skiing, writing stories and creating films. Strong interest in other cultures: travel includes South America, Turkey, backpacking in Southern & Western Europe, and language study in Spain.