

# Megan Barnes

<http://meganbarnes.github.io>  
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## EDUCATION

### THE UNIVERSITY OF CHICAGO

#### BACHELOR OF ARTS IN LINGUISTICS

Expected June 2016 | Chicago, IL

Minor in Computer Science

Dean's List (All Quarters)

Cum. GPA: 3.72/4.00

Major GPA: 3.95/4.00

### CLEVELAND HIGH SCHOOL

Grad June 2014 | Portland, OR

Cum. GPA: 4.00/4.00

## LINKS

Github:// [meganbarnes](#)

LinkedIn:// [mbarnes5](#)

## COURSEWORK

### COMPUTER SCIENCE

Computational Linguistics

Computer Systems (architecture, micro-architecture, operating systems, networks)

Software Engineering

Scientific Visualization

Machine Learning

### LINGUISTICS

Syntax

Semantics & Pragmatics

Phonetics & Phonology

Morphology

Bantu Tone Systems

Mathematical Foundations for Linguistics

Algonquin Morphosyntax

Contact Linguistics

Discourse Analysis

## SKILLS

### PROGRAMMING

Python (and NLTK) • Java • C •

JavaScript • HTML • CSS •  $\text{\LaTeX}$

SQL • R • Machine Assembly

Familiar:

PHP • Drupal • Shell

### PROFESSIONAL

Git • Test-driven development • Agile development • Spanish

## EXPERIENCE

### KNOWLEDGE LAB | UNDERGRADUATE DATA SCIENTIST

Jan 2015 - present | Chicago, IL

- Conceptualizing specific and attainable research questions as well as potential challenges to investigation using Wikipedia and scholarly publications as data sources
- Implementing data aggregation pipelines, including data scraping, cleaning, normalization, and statistical analysis
- Independently identifying shortcomings in data research methodology and suggesting possible revisions in order to increase precision and accuracy in analysis
- Interpreting research and suggesting meaningful, human-readable conclusions to draw from statistical results

### INTEL CORPORATION | WEB DEVELOPMENT INTERN

June 2014 - Sep 2014 | Hillsboro, OR

- Improved and increased usability of a high-traffic, large-codebase website (software.intel.com) in a development team setting, emphasizing cooperation and collaboration in order to solve complex problems
- Created new webpage functionality through sharing input with business-oriented team members in planning stages as well as implementing both front- and back-end code independently

### UNIVERSITY OF CHICAGO COMPUTATIONAL LINGUISTICS

#### DEPT. | RESEARCH ASSISTANT

Mar 2014 - Apr 2014 | Chicago, IL

- Independently brainstormed and implemented improvements for natural language processing programs
- Improved quality of software through bug-detection
- Explained software processes through documentation and commenting, improving clarity of software

## PROJECTS AND CONTRIBUTIONS

### SCANND | DEVELOPER

Oct 2014 - Dec 2014 | Python, OpenCV, Flask

Built a web-based smart PDF viewer/annotator in a small team. Contributed to the sub-team dedicated to the computer vision aspect of the project, focusing on skew detection/correction and line detection of PDF files.

Repository: [github.com/catherinemoresco/PDFProject](https://github.com/catherinemoresco/PDFProject)

### MUNAL | DEVELOPER

Mar 2014 - Jun 2014 | Python, R, SQL

Developed music analysis software in a small team that used qualities of a released song and decision trees to guess the genre of the song.

Repository: [github.com/ZakirG/MuNal](https://github.com/ZakirG/MuNal)

## LEADERSHIP AND MEMBERSHIP

### DELTA GAMMA FRATERNITY | DIRECTOR OF PUBLIC RELATIONS

Jan 2015 - present

Curating content and contributing design for social media sites representing the fraternity. Designing and constructing the chapter's official website, [deltagammauchicago.com](http://deltagammauchicago.com).