Megan Barnes

http://meganbarnes.github.io
meganbarnes@uchicago.edu | (503)412-9055

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 • 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

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

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.