

Alex Simms

Education

2012–2016 **Bachelor's in Computer Science and Linguistics**, *Swarthmore College*, Swarthmore, PA, 3.6
(Projected) *GPA*.

Relevant coursework: Data Structures and Algorithms, Introduction to Computer Systems, Natural Language Processing, Cloud Computing and Data Center Networks, Discrete Mathematics, Algorithms

Vocational Experience

June **Software Development Engineer Intern**, *Amazon.com*, Seattle, Washington.

2015–Aug Developed a back-end system that crawls services all across Amazon in order to improve discoverability and
2015 ease of use for an internal big data platform. The system was pushed to production and I was responsible for its maintenance during the course of the internship.

Jan **Computer Science Ninja**, *Swarthmore College CS Department*, Swarthmore, Pennsylvania.

2014–May Assisted professors in the teaching of Swarthmore's *Introduction to Computer Science*, developing communi-
2015 cation and instructional skills.

Led weekly help clinics for programming assignments and quiz review.

Summer 2014 **SPEED Intern**, *Swarthmore College ITS Department*, Swarthmore, Pennsylvania.

Implemented a one-page RESTful front-end web application for the Juxta Commons text comparison back-end, using Backbone as the MVC framework and Twitter Bootstrap for a design framework.

Academic Projects

MacCarthy's Revenge Implemented a Common Lisp Library for running Hadoop and AWS MapReduce jobs for Swarthmore's *Cloud Computing and Data Center Networks* course. The end result used the Hadoop streaming API and allowed for MapReduce jobs to be chained together for more advanced data processing.

Tweet Sentiment Classifier Implemented a hybrid sentiment classifier for Tweets, with the goal of entering it in to the SemEval-2014 Task 9 competition as a part of my Natural Language Processing course. The classifier used a combination of the Naïve Bayes Algorithm and a Neural Network to classify the sentiment of tweets as positive, negative, or neutral.

Programming Languages

Python **Advanced** *First language, go-to tool for scripting, prototyping. Helped teach it as a "Ninja".*

Java **Intermediate** *Developed Java in a service-oriented architecture. I have particular experience with Java's reflective capabilities*

C/C++ **Intermediate** *Used extensively in coursework: Data Structures and Algorithms, Systems.*

HTML/JS **Intermediate** *Developed web applications with JQuery, Bootstrap, Backbone, Underscore, and AngularJS*

Common Lisp **Beginner** *A language I'm insensely curious about, used for one major project.*

Haskell and **Novice**
Clojure

These are both fun, incredibly interesting languages that I have been learning on my own and enjoying tremendously.