Brett Gurman

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Education

Tufts University, Medford, MA — GPA 3.24

- Bachelors of Science in Computer Science and Cognitive and Brain Sciences **May 2017**
- Masters of Science in Computer Science **May 2018**
- Relevant Coursework: Data Structures, Algorithms, Programming Languages, Natural Language Processing, Internet-Scale Distributed Systems, Computer Graphics, Machine Structure and Assembly Language, Web Programming, Operating Systems

Work Experience

EMC - Virtustream | McLean, VA

Software Engineer Intern | Summer 2016

- Created demos and user guides to accompany suite of security vulnerability and compliance assessment tools
- Implemented software used to conduct security compliance assessments from a remote host on any number of target machines

Tufts Department of Computer Science | Medford, MA

Teaching Assistant | September 2014 - Fall 2016

- Guide students in completion of major course assignments during office hours
- Grade assignments for first three courses required for the Computer Science major
- Teach computer labs for beginner and intermediate level students

Tufts Human Robotic Interaction Lab | Medford, MA

Research Assistant | November 2014 - August 2015

- Implemented methods to incorporate a physic simulator into decision making algorithms for use with robots

Skills

Programming Languages:	C, Python, C++, Java, Matlab, R, Ruby, PHP, HTML, CSS, Javascript, Swift, SQL
Software:	Microsoft Office, GNU, Git, Linux, Windows, NLTK, TCP/IP Networking, Flask
Foreign Languages:	Chinese

Projects

Word Segmentation Algorithm for Chinese Sentences | Python

- Word segmentation algorithm which trains a language model on POS-tagged, hand-segmented Chinese sentences, which can then segment new sentences

Statistical Syntax Parser | Python

- CKY dynamic programming algorithm for probabilistic context-free grammars, which takes english sentences and determines and returns the appropriate syntax tree based