

DUANE R. SWIFT

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On Campus Address:
291 St. Botolph Street,
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EDUCATION

Northeastern University, Boston, MA, USA September 2014 – Present
College of Computer and Information Science
Candidate for a Bachelor of Science in Computer Science and Linguistics; GPA: 3.13 Expected May 2018

Related Courses: Artificial Intelligence, Software Development, Object-Oriented Design,
Algorithms & Data, Theory of Computation, Logic & Computation,
Linguistic Analysis, Syntax, Phonetics & Phonology, Psychology of Language
Honors: University Scholars Program (Top < 1% of Entering Class)
Activities: Resident Assistant, Choral Society, Youth Tutor
Community Service: Northeastern Youth Development Initiative Program, Boston Partners in Education

COMPUTER KNOWLEDGE

Languages: Proficient in: Java, Python; Familiar with: C, JavaScript, Racket, C++.
Operating Systems: Windows, Android, Linux.
Frameworks: Familiar with: Bootstrap, Django
Mini Projects: Pacman AI (Python), Maze Game (Java), Personal Website (HTML/CSS/Bootstrap)

PROJECTS

- TriniTranslate (Java)** July 2016 – Present
- Analyzing the concepts of parsing sentences, part of speech tagging and statistical learning.
 - Experimenting with two main approaches – statistical and “Chomsky-an” approaches to parsing, and evaluating the merit/pros and cons of both, starting from scratch.
- Boston Housing Authority - Volunteer Interpreter Program Website (Python, Django)** September 2016 – Present
- Expanded on existing codebase, ensuring existing functionality, fixing operational bugs
 - Added a Referral System, where a volunteer could refer someone to the BHA, and have that referral be linked to them.
- Music Reader/Editor/Player (Java)** October 2015 – December 2015
- Analyzed and developed a suitable model to parse pre-existing formatted text files
 - Developed views and controller for the music player, to allow user modification
- Laundry Management System (C)** September 2012 – March 2014
- Analyzed existing system & created a new system in C, which managed login information
 - Kept track of customer records, created receipts, checked inventory

OTHER EXPERIENCE

Field Linguist, Trinidad & Tobago/USA June 2015 – September 2015
Independent Research

- Created a sociolinguistic survey to elicit dialectal differences within the Caribbean
- Elicited phonological, morphological, syntactic and lexicosemantic differences within and between the islands.

INTERESTS

Fields: Natural Language Processing; Computational Linguistics; Artificial Intelligence; Psycholinguistics; Languages
Arts: Singing; Classical & Choral music; Marching Band choreography

REFERENCES TO BE FURNISHED UPON REQUEST