

Trevor Sullivan

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Summary: Focused and detail-oriented Computational Linguist offering exceptional knowledge of Computational Linguistics and Natural Language Processing techniques and a talent for developing innovative solutions to unusual and difficult problems.

Skills:

- Python, Java, Perl, Prolog
- Natural Language Processing
- Sentiment Analysis
- Analytical
- Team player
- Search
- Machine Learning
- Experienced writer
- Familiar with Object Oriented Programming Paradigms

Accomplishments

- Implemented state-of-the-art dictionary search methods
- Designed and implemented a chatbot for the Arizona Language Technology students
- Designed and developed a minimalist machine for Persian
- Designed and implemented Mac installer for Arizona Autotrace software
- Built website and wrote documentation for the same

Experience:

VirtualWorks 5/16 to present

- Internship for Human Language Technology degree
- Analyzed and compared relative performance of Finite State Machines in Apache Lucene
- Searched literature for an improvement over FST and n-gram systems
- Implemented from scratch brand new search technique that supports efficient fuzzy prefix searching without pre-compiling.

Complex Predicate Lab 10/15 to 5/16

- Data collection with native speakers
- Data transcription and database structuring
- Weekly meeting for analysis and refinement of theory
- Co-authored a paper

Arizona Phonological Imaging Lab 10/13 to 5/16

- Design and implement graphical interfaces for the existing tools in the project
- Make product installation easier by removing dependencies and writing installers
- Write manuals for the use of each of the tools in the project
- Design and maintain a website to house the manuals.
- Design a new web-based interface to integrate main software with database

- Coordinate with network designer to inventory hardware and map the HBNet secure network.
- Configure new server and router hardware for the network.

Education:

University of Arizona

2017

Master of Science: Human Language Technology

- Coursework in advanced syntax, advanced computational linguistics, speech technology, natural language processing, Machine Learning, Artificial Intelligence, Computational Pragmatics, and Information Retrieval
- Programming in Python, Perl, Prolog, Haskell
- Work with large corpora, semantic networks, treebanks, and firehose APIs
- Internship in search engine algorithms

University of Arizona

2016

Bachelor of Arts: Linguistics, Computer Science

- Coursework in syntax, phonology, phonetics, and computational linguistics
- Coursework in object oriented program design, computer architecture, formal logic, algorithm and data structure analysis, design, and implementation
- Thesis on Persian Minimalism
- Programming in Java, Python, Matlab, MIPS, C

References:

Submitted upon request