

Trevor Sullivan

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Summary:	Focused and detail-oriented Natural Language Processing engineer offering exceptional knowledge of machine learning, big data, and information retrieval techniques with a specialty in predictive query analysis and a talent for developing innovative solutions to unusual and difficult problems.	
Skills:	<ul style="list-style-type: none">• Python, Java, Scala, Perl, Prolog• BA in Linguistics and Computer Science• Linux sysadmin• Team player	<ul style="list-style-type: none">• MS in Human Language Technology• Agile development• Docker container development and deployment• Familiar with OOP and Functional programming Paradigms
Accomplishments	<ul style="list-style-type: none">• Developed new contract annotation product for Ayfie Inc• Developed commute tracking app that updates slack status with arrival time based on past performance at time of day and @PANYNJ_LT (Lincoln Tunnel) tweets• Developed heavy metal lyric generator with deep neural networks• Implemented Marjan Celikik's dissertation on fuzzy prefix search• Built website, documentation, and installer for APIL Autotrace	
Experience:		
	Ayfie Inc	5/2017 to 3/2020
	Professional Services Engineer	
	<ul style="list-style-type: none">• Creating brand new classification, analysis, trend detection, and other machine learning projects to fill customer needs• Creating a new product called Annotator by leveraging several subcomponents of Ayfie Inspector• Creating and maintaining product demos for use in sales meetings and at industry conferences• Onboarding new customers, including creating purpose-made programs for data ingestion• Preprocessing data for ingestion into Ayfie's search and analytics engine• Interacting with diverse APIs and data formats to create unified data processing and search systems to fulfill customer needs• Tweaking and optimizing search and query suggest parameters to match user expectations and corpus demands	
	U of Arizona Department of Linguistics	1/2017 to 5/2017
	Graduate Research Assistant	
	<ul style="list-style-type: none">• Data processing for Tom Bever's neurolinguistics lab• Organizing, scheduling, and running Prospective Student Week• Organizing, scheduling, and running HLT Homecoming and Internship Workshop	
	VirtualWorks Inc	5/2016 to 1/2017
	Thesis Intern	
	<ul style="list-style-type: none">• Investigate performance of Apache Lucene for approximate searching• Investigate the bleeding edge of search algorithm technology for a new query analysis method to implement• Implement Marjan Celikik's method for indexing for approximate prefix search	

Undergraduate Research Assistant

- 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

Persian Complex Predicate Lab

11/2015 to 5/2016

Undergraduate Research Assistant

- Transcribe auditory data
- Organize and populate database
- Discuss theoretical consequences of data with the lab group
- Write papers for publication

Phoenix Managed Networks

05/2013 to 08/2013

- 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 machine learning, data science, information retrieval, AI, advanced computational linguistics, speech technology, natural language processing, syntax, semantics, pragmatics.
- Programming in Python, Scala, Perl, Prolog
- Work with large corpora, big data, neural networks, and various statistical methods
- Thesis on approximate prefix search query prediction, including an internship with VirtualWorks.

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