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:

- Python, Java, Scala, Perl, Prolog
- BA in Linguistics and Computer Science
- Linux sysadmin
- Team player
- MS in Human Language Technology
- Agile development
- Docker container development and deployment
- Familiar with OOP and Functional programming Paradigms

Accomplishments

- 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

- 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

- 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

- 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

Arizona Phonological Imaging Lab 10/2013 to 5/2016

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