

Trevor Sullivan

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Summary: Focused and detail-oriented software developer with experience with web technologies, frontend development, machine learning, ETL automation, and information retrieval with a specialty in natural language processing and predictive query analysis, and a talent for developing innovative solutions to unusual and difficult problems.

Skills: Expert: Python, NLP, Machine Learning, Flask, Linux, Bash
Advanced: Vue.js, Django, JavaScript, Docker, Nginx, REST
Intermediate: Scala, Kotlin, Java, SQL, Elasticsearch, Kubernetes

Accomplishments:

- 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, incorporating linear regression, Bayesian networks, Slack API, and Tasker
- Developed heavy metal lyric generator with LSTM Neural Networks in Keras
- Implemented state-of-the-art algorithms on fuzzy prefix search
- Built website, documentation, database, and installer for APIL Autotrace

Professional Experience: Deloitte Consulting 10/2020 to Present
AI Development Consultant

- Simplified customer outreach for a major healthcare provider using Offline Reinforcement Learning to automatically develop long-term outreach plans to optimize usage goals.
- Increased speed of claim review for major insurance services provider with machine-learning driven computer-assisted review
- Developed new configuration and programming webapp for Deloitte's Digital Heartbeat conversational AI product, enabling faster turnaround for bot development and deployment.
- Skills used: Python, Pandas, Scikit-Learn, Vue.js, Node.js, Elasticsearch, Docker, AWS

EDT Inc 7/2020

Freelance Full Stack Development (GIS and database)

- Designed and developed soil sample database and interface with map views for visualizing corrosivity
- Skills used: Django, PostgreSQL, GIS, DigitalOcean, Docker, Kubernetes

RedFury 4/2020

Freelance Full Stack Development (ecommerce)

- Designed and developed prototype webapp for new equipment rental business.
- Skills used: Django, JavaScript, SQLite, Stripe, Docker

Ayfie Inc 5/2017 to 3/2020

Professional Services Engineer

- Designed trend detection system in large text corpora including of legislation and medical records, making use of word embeddings to identify topic trends
- Created search website demos with various public-access corpora, including Wikipedia, Supreme Court decisions, COVID-19 studies, and emails from Enron
- Built new Annotator product for instant contract annotation, highlighting several clause types and extracting important names and values
- Built a failsafe periodically updating search system for an academic press
- Served customer needs with classification, analysis, trend detection, and other

- machine learning projects
- Skills used: Python, Docker, Flask, Elasticsearch, SQL, GraphQL, Nginx, Kotlin

VirtualWorks Inc 5/2016 to 1/2017

Associate Engineer

- Investigated the query analysis technology and compare performance
- Implemented Marjan Celikik's method for indexing for approximate prefix search
- Skills used: Java, Scala, Junit, Python, NLP

Arizona Phonological Imaging Lab 10/2013 to 5/2016

- Developed GUI and installer for several project tools
- Wrote manuals for each of the tools in the project
- Built a website to house the manuals
- Developed a new web-based database interface for inter-lab collaboration
- Skills used: Javascript, Python, Jekyll, HTML, Django, Bash, TK, Linux, OSX

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.
- Thesis on approximate prefix search query prediction

University of Arizona 2016

Bachelor of Arts: Linguistics, Computer Science