

Lance Fernando

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Education

M.S. in Data Science

Jun 2018 - Jun 2019

University of San Francisco

Coursework: Advance Machine Learning | Distributed Data Systems | Time Series Analysis
Linear Regression | Experimental Design | Deep Learning | Distributed Computing

B.S. in Data Science | Magna Cum Laude

Sep 2014 - May 2018

University of San Francisco

Experience

Data Science Intern

Nov 2018 - Present

Eventbrite (San Francisco, CA)

- Provided insights for product managers to better understand how event creators utilize Eventbrite's platform and which features correlate most to a successful event
- Assisting engineers in better understanding event venue data

Graduate Research Assistant

Sep 2018 - Nov 2018

ABC News | USF Data Institute

- Assisted in the creation of a web-based app to assist ABC news in predicting midterm election results in real-time

Data Visualization Research Intern

Aug 2017 - May 2018

CA Technologies (Santa Clara, CA)

- Developed a visualization dashboard that facilitates the exploration process with an automated interface generating a dashboard and recommending visualization options

Undergraduate Research Assistant

Jun 2017 - May 2018

USF Visualization and Graphics Lab

- Designed user studies to assess aesthetic effects on visualization utility and literacy

Data Intern

Dec 2016 - Feb 2018

The ClimateMusic Project

- Aggregated and analyzed historic and future climate data for use in musical composition
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Projects

Predicting Parking Turnover

Jan 2018

Group Project

Predicted parking turnover (i.e., metric to assess availability of parking) of a given block street block using SF parking meter data. Used **MongoDB** for distributed storage and **EMR + SparkSQL + SparkML** for distributed data wrangling and modeling.

Progressions

Summer 2018

[github.com/Ljfernando/Progressions](#)

Personal Project

Created a web-app that allows you to find songs that are similar based on their chord progression. Data scraped from [Ultimate-Guitar.com](#). Website created using **Flask+Angular.js** and stored data using **MySQL**.

Markovian Blues

Spring 2018

[github.com/Ljfernando/MarkovBlues](#)

Personal Project

Produced artificially generated melodies using a Variable-order Markov Model and Probabilistic Suffix Tree trained on a personally created dataset of 12-bar blues melodies. Implemented in **R**.

Consensus Clustering App

Spring 2018

[ljfernando.shinyapps.io/ConsensusClustering/](#)

Personal Project

Created an **RShiny** app that performs consensus clustering with algorithms such as k-means, spectral clustering and many others. Has functionality to tune algorithm parameters and visualize consensus clustering assignments

Skills & Technologies

Database Technologies: Presto, Hive, PySpark, PostgreSQL, MySQL, MongoDB, AWS

Languages: Python, R, Javascript

Visualization: Tableau, ggplot2, D3.js, matplotlib, plotly

Certifications

Designing, Running, and Analyzing Experiments | UC San Diego, Coursera

Spring 2018

[coursera.org/account/accomplishments/certificate/KVEDKCDACQ68](#)

Data Science Ethics | University of Michigan, Coursera

Spring 2018

[coursera.org/account/accomplishments/certificate/ND5A4UVRH5W4](#)