

Richie Mendelsohn

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973.420.7193

LANGUAGES AND TECHNOLOGIES

- Excellent: **Python, Java** Good: **Ruby, AngularJS, node.js, p5.js** Prior: **C++, Matlab**
- **Machine Learning, Data Science, Creative Technology, Design Thinking, Audio Signal Processing, Test Driven Development, Scikit-Learn, Tensorflow**

WORK

Senior Software Engineer - Machine Learning and NLP

April 2016 - Present

Pop Up Archive

Oakland, CA

- Clustering and organizing podcasts based on unsupervised LDA topic modeling of podcast transcripts -- [extracting 80+ topics from 1000's of podcasts](#)
- Enriching podcast transcript metadata with NLP
 - Keyword and named entity extraction using graph-based techniques and supervised learning
 - Semantic similarity and semantic search built off word2vec
- Built recommendations engine to better surface the long-tail of great podcast content
- Content-based recommendations from tf-idf data / Collab-filtering from user-listening data

Venture Design Fellow

June - August 2016

IDEO

San Francisco, CA

- Rapidly prototyped the viability of several startup ventures centered around Internet Of Things and blockchain technology as part of the IDEO CoLab Summer Fellowship
- Full-stack development for [Plenty](#), a peer-to-peer inventory management system for restaurants; built in Python / Flask

Teaching Assistant — Creative Code Immersive

January - March 2016

Grey Area Foundation For The Arts

San Francisco, CA

- Teaching web skills (p5.js, node.js, HTML/CSS) and physical computing (Arduino, Raspberry Pi) to 12 students for building interactive art installations

Software Engineer

July 2013 - February 2015

Google

Mountain View, CA

- Artificial Intelligence / Natural Language Processing team
 - Developed eval framework of auto-extracted ad headlines from advertiser's landing pages
 - End-to-end testing for automatic extraction of product testimonials from Google Play reviews
- YouTube
 - Developed a plug-and-playable testing environment for YouTube Developers, providing a simple, flexible integration testing framework for ~300 engineers
 - Led the design and implementation of Test Therapy, an intelligent Python test-runner that automatically finds and instantly runs applicable unit-tests based on what are edited

Software Engineer in Test

December 2011 – May 2013

Spectra Logic

Boulder, CO

- Architected and wrote an extensible automation framework which integrates SCSI, Selenium, and XML protocols to test core product functionality

Test Engineer

January 2010 - July 2011

Raytheon

Aurora, CO

- Test automation using Perl scripts for Command and Control weather satellite system -- NPOESS

EDUCATION

Bachelor's Degree in Electrical Engineering

May 2009

Rutgers University

New Brunswick, NJ

- Concentrations: Software Engineering, Digital Signal Processing