Richie Mendelsohn

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LANGUAGES AND TECHNOLOGIES
- Excellent: **Python, Tensorflow, Keras**   Prior: **Scala, Ruby, Java, C++, p5.js**
- **Machine Learning, Natural Language Processing, Data Science, TensorFlow, Keras, Creative Technology, Design Thinking, Audio Signal Processing, TDD**

WORK

Senior Machine Learning Engineer - Podcast Science   November 2017 - Aug 2021
Apple   San Francisco, CA
- Build podcast discovery models to improve Search + Recommendations features using user-listening data and podcast content data (audio, transcripts)
- Punctuation Prediction Model for podcast transcripts with seq2seq LSTM model
- Topic and transcript embeddings using transformers; audio classification and embeddings

Senior Data Scientist   April 2016 - November 2017
Audiosear.ch / PopUpArchive   Oakland, CA
- Clustering and organizing podcasts based on unsupervised LDA topic modeling of podcast transcripts -- extracting 80+ topics from 40k podcasts
- Unsupervised keyword and named entity extraction from podcast transcripts
- Built recommendations engine to better surface the long-tail of great podcast content
  - Content-based recommendations from topics data / Collaborative filtering from play data
- Small five person startup acquired by Apple

Venture Design Fellow   June - August 2016
IDEO   San Francisco, CA
- Rapidly prototyped the viability of several startup ventures centered around IoT and blockchain
- GlockChain -- IoT connected handgun that logs trigger pulls to blockchain for police transparency
- Shared Pantry -- peer-to-peer inventory management for restaurants to reduce food waste

Software Engineer   July 2013 - February 2015
Google   Mountain View, CA
- Artificial Intelligence products and applications team (Google Machine Intelligence)
  - 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   San Bruno, CA
  - 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 files developers edit

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

CREATIVE

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 and algorithmic music composition

Algorithmic Music Composition   San Francisco, CA
- Audio remixing and composition using DSP-based audio features and audio event onsets

EDUCATION

Bachelor's Degree in Electrical Engineering   May 2009
Rutgers University   New Brunswick, NJ
- Concentrations: Software Engineering, Digital Signal Processing