

# Richie Mendelsohn

[richiem.github.io](https://richiem.github.io)

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## **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 - Podcast Science**

November 2017 - Present

#### **Apple**

San Francisco, CA

- Improving Apple Podcasts App search and recommendations by enriching podcast metadata
- Audio content analysis, NLP text analysis

### **Senior Software Engineer - Machine Learning and NLP**

April 2016 - November 2017

#### **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
- 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
- Full-stack development for [Plenty](#), a peer-to-peer inventory management system for restaurants

### **Software Engineer**

July 2013 - February 2015

#### **Google**

Mountain View, CA

- Artificial Intelligence / Natural Language Processing team (Google Research)
  - 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 files a developer is editing

### **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

## **EDUCATION**

### **Bachelor's Degree in Electrical Engineering**

May 2009

#### **Rutgers University**

New Brunswick, NJ

- Concentrations: Software Engineering, Digital Signal Processing