

# Ting Zhang

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## EXPERIENCE

### **BuzzFeed, Senior Software Engineer — Oct 2018–Present**

Machine Learning Engineer on the Distribution Tools team; use Python, Tornado, NSQ, MySQL, Redis, BigQuery, Airflow, Jupyter, Pandas, Sklearn, Datadog.

- Collaborated on architecture and implementation of a publishing pipeline, which auto-uploads and smart-recommends content that drives 15% of the company's social link clicks (96M in a three month span).
- Designed and implemented a channel relevance prediction API, increasing pipeline flexibility and visibility.
- Developed an ML model to predict earning potential for video recirculation, correctly classifying the highest earning content in one of the top two earning buckets 86% of the time.
- Redesigned our model training and serving infrastructure with the goals of job isolation and resilience.
- Managed a successful summer intern whose project reduced recommendation dismissal rate by 57%.
- Mentored data scientists and more junior engineers in software architecture and technical document writing.

### **Sabbatical, Participant at Recurse Center — July 2018–Sep 2018**

Participant focusing on machine learning fundamentals and data ethics at a self-structured technical learning retreat.

### **BuzzFeed, Software Engineer → Senior Software Engineer — Feb 2015–June 2018**

Backend Engineer on the Video Infrastructure team & Data Pipeline Engineer on the Data Infrastructure team; used Python, Tornado, Django, NSQ, MySQL, Amazon Elasticsearch, Amazon S3, Datadog.

- Collaborated on architecture design for in-house data collection pipeline infrastructure.
- Implemented monitoring for our data collection pipeline to surface when and why ETL processes fail.
- Designed and integrated stats collection from external APIs, including YouTube, Instagram, and Facebook.
- Architected and implemented a microservice-oriented approach to internal video search.
- Designed and implemented an API providing canonical user references across the company's tech ecosystem.
- Implemented an asynchronous video release process to provide transcoded videos for distribution.
- Collaborated with a group of six diverse engineers to write our tech organization's Code of Conduct.

### **Girl Develop It, Instructor — Jul 2015–Mar 2017**

Instructed a two-hour Intro to Algorithms course.

## SKILLS

**Programming Languages:** Proficient with Python; Familiar with Java, JavaScript, Perl, Ruby

**Frameworks:** Proficient Tornado; Familiar with Django, Rails, Sinatra, T3JS

**Data Warehouses:** Proficient with Elasticsearch, MySQL; Familiar with Redis, BigQuery

**Tools:** Proficient with NSQ; Familiar with Airflow, Jupyter, Pandas, Sklearn

**Natural Languages:** Proficient in English, Spanish; Familiar with French, Italian, Mandarin

## SAMPLE CODE

### **Etymology API — <https://github.com/tngzng/etymology>**

API that surfaces the origins and descendants of words, revealing hidden word relationships.

### **Algorithms — <https://github.com/tngzng/algorithms>**

Algorithm implementations in Python. Personal favorites include Huffman Codes and Decision Tree.

## EDUCATION

### **Columbia University — New York, NY**

Bachelor of Arts, Cultural Anthropology, May 2013