

# TIMOTHY GOODWIN

tim.goodwin@gmail.com | (626) 616-5749 | [tgoodwin.github.io](https://tgoodwin.github.io)

## WORK EXPERIENCE

### MOAT (ORACLE)

New York, NY  
July 2017 - Present

### SOFTWARE ENGINEER

- Lead developer on Moat's first predictive data product, [Pre-Bid by Moat](#), implemented a 100Gb/min data pipeline using Kafka and Spark to produce ad viewability predictions for over 300 million URLs every hour
- Full-stack development of Activity Spike, an anomaly detection feature for Moat Pro. Postgres outlier detection and stored procedures, Python API design, React + Redux frontend.

### GRAPHIQ

Santa Barbara, CA  
Jun 2016 – Aug 2016

### SOFTWARE ENGINEERING INTERN

- Developed a serverless screenshot generation microservice with PhantomJS for Graphiq's data visualization search product.
- Expanded capabilities of the Graphiq data visualization framework with D3 and React.
- Built React interfaces for new knowledge graph visualization capabilities.

### GOLDSMITH & CO.

New York, NY  
Sep 2015 – May 2016

### SOFTWARE DEVELOPER INTERN

- Designed a customizable email automation and task-management service integrated with the company's Salesforce platform.
- Developed MasterView, a weekly client report summarizer and admin tool for recruitment tasks.

## EDUCATION

### COLUMBIA UNIVERSITY

New York, NY  
May 2017

### BACHELORS OF SCIENCE, Computer Science

Departmental GPA: **3.90**

Dean's List recipient, head TA for Computer Networks, TA for CS Theory

## SKILLS

Python, Javascript, AWS, Spark, React, Redux, Docker, C, SQL, Java, UNIX, Git, Node, OCaml, WebRTC, Firebase, some devops, some networking, guitar, piano

## PROJECTS

### Happenings

2018-present

Social event discovery tool built with React, Redux, and Firebase. A design-focused alternative to algo-driven platforms like facebook. <https://whathappenings.com>

### WebRTC-Analyzer

Columbia University  
2016-2017

A simple video conferencing server application for conducting and measuring the performance of WebRTC video calls under various network environments.

### My Ad Net

Summer 2016

A DNS request-sniffing Node app that locates, records, then visualizes all ad-related traffic entering or leaving a user's local area network.

### NYC Music Mapper

Fall 2015

A web-based geospatial guide to the music and visual arts coverage of New York's Rare Candy Magazine.



