

# Matthew Lin

Full-stack software engineer interested in building innovative products

## EXPERIENCE

### Zoox, Foster City, CA — Software Engineer

January 2019 - May 2021

- Developed **Python** scripts that gather driving metrics via **ElasticSearch** from an **AWS endpoint** to generate detailed reports on vehicle safety
- Used **Slack API** to read and write data metrics to Slackbots
- Created **PostgreSQL** database and **Django** server to interface with **Redshift** hooks to **Looker** and **Google Data Studio** for metrics reporting
- Worked with the **JIRA API** to generate daily task tracking tickets

### Apple, Cupertino, CA — Software Engineer 2

July 2017 - December 2018

- Developed **automation tools** to run data science metrics on **Apple Watch Media apps** using **numpy**, **matplotlib**, and **pandas** in **Python**
- Developed flexible **command line tools** for **Media app** stress testing
- Analyzed streaming and download speeds of **Media apps** for triage
- Created **multithreaded logging system** that tracked **device processes**
- Built a **crash monitoring system** that detected changes in **device PIDs**

### Apple, Cupertino, CA — Software Engineering Intern

June 2016 - September 2016

- Developed a dashboard to analyze **iOS 10** test suites using a **Django backend**, **Ember.js** frontend, and **PostgreSQL** database
- Generated **graphical visualizations** of test suites using **c3.js**
- Created a prototype for a companion **iOS app** using **Objective-C**
- **Pitched** an innovative product feature to Senior VP of Marketing
- **Presented** intern project to VP of OS Programs and gained adoption within other SWE organizations in Apple

### Taboola, Pasadena, CA — Engineering Intern

June 2015 - August 2015

- Wrote **Selenium integration tests** in **Java** to test **full-stack** web features
- Developed **utility functions** that selected random test cases and kept track of elapsed time for each test, providing useful analytics
- Provided **continuous integration** for client pages via **Jenkins**

## EDUCATION

### University of California, Los Angeles

#### Bachelor of Science, Computer Science

September 2013 - June 2017

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<https://github.com/Darthpwner>

<http://darthpwner.github.io>

## SKILLS

Python = Expert

Swift = Proficient

Java = Proficient

Ember.js = Proficient

Objective-C = Familiar

## AWARDS

1st Place Winner ([Hack on the Hill 2](#))

1st Place Winner ([IDEA Hacks 2016](#))

Top 4 out of 167 teams ([Cal Hacks 2.0](#))

Best use of IBM Bluemix, Most Entrepreneurially Promising Hack by Perkins Cole, 3rd place for Hack that Best Connects Us by Viasat ([SD Hacks 2015](#))

Best Mobile Hack ([HackSC 2015](#))

## PERSONAL PROJECTS

### Tennis Scorekeeper

([iOS](#) and [Android](#))

Sports app that displays and calls out the scores of the user's match

### Bill Util

([iOS](#) and [Android](#))

Utility app that performs calculations for tips, sales tax, income, and rent as well as converts common currency

### Keepy-Uppy

([iOS](#))

Game where the goal is to keep the ball in the air as long as possible to score points based on the number of taps and combos generated