

Matthew Lin

Full-stack software engineer interested in building innovative products

EXPERIENCE

Zoox, Foster City, CA — Software Engineer

January 2019 - Present

- Developed a **Python** script that collects driving test information via **ElasticSearch** from an **AWS endpoint** to report test pass and failure rates
- Created **Looker** dashboards through **Redshift** to collect driving statistics
- Mapped **TestRail**, **Marvel**, and **JIRA** tickets to ensure uniform coverage
- Worked with **Unreal Engine** to create tests based on real-world log info

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

- Created extensive **unit tests** in **Javascript** for **frontend** facing features
- Wrote **Selenium integration tests** in **Java** to test **full-stack** web features
- Built a testing **framework** that reduced code duplication and clutter
- 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