

# Ismael Izzy Gomez

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## Education

### Massachusetts Institute of Technology

Cambridge, MA

*Bachelor of Science in Computer Science and Engineering*

Graduated 2017

**Select Coursework:** Design and Analysis of Algorithms, Computer System Engineering, Network and Computer Systems Security, Computational Structures, Artificial Intelligence, Differential Equations, Linear Algebra

## Experience

### Google/YouTube

San Bruno, CA

*Software Engineer*

Feb 2018 - current

- Working on YouTube music, designing and developing the serving infrastructure for the world's most engaging and socially rewarding music experience.

### Yelp

San Francisco, CA

*Software Engineer Intern*

Fall 2017

- Supported the Distributed Systems team, implementing connector logic for Kafka and Flink stream processing.

### Facebook

Menlo Park, CA

*Software Engineer Intern*

Summer 2017

- Designed and implemented privacy checks in back end ads infrastructure on the Messenger Ads team.

### Natural Language Processing Group, MIT CSAIL

Cambridge, MA

*Undergraduate Researcher*

Sept 2016 - Jan 2017

- Led development on full-stack application using machine learning models to auto-classify medical data.

### Amazon Lab126

Sunnyvale, CA

*Software Engineer Intern*

Summer 2016

- Developed the use of machine learning models to optimize memory footprint of e-reader (Kindle) content.

### Various Research Groups at MIT Labs

Cambridge, MA

*Undergraduate Researcher in {A: CSG @ CSAIL, B: CP @ Media Lab}*

Spring - Summer 2015

- A: Tested and debugged the compiler of a Fresh Breeze multiprocessor chip, an architecture simulated in Java optimized for high-performance, parallel computation;
- A: Developed benchmark program implementing the Hartree-Fock quantum approximation algorithm.
- B: Developed and programmed interface between an algorithmic analysis package in MATLAB to a prototype hardware system of modular, pressure-sensitive sheets run using an Arduino and ATmega8 boards.
- B: Model k-means clustering algorithm to identify individual footsteps on the pressure-sensitive sheets; analyze footsteps and corresponding centroids to predict walking behavior.

### Pololu Corporation

Las Vegas, NV

*Electrical and Software Engineer Intern*

Summer 2014

- Designed and tested printed circuit board for A4990 Dual Motor Driver Shield for Arduino using Altium PCB Designer, and developed corresponding Arduino software library.

## Skills

**Languages:** C++, Python, Java, Scala, Javascript, PHP/Hack, HTML, CSS

**Tools:** Zsh, Emacs, MongoDB, Docker, Kafka, Flink, Meteor, AWS, Heroku,  $\LaTeX$ , Git, OS X

**Interests:** Machine Learning, Virtual Reality, Design, Personal Analytics, Writing, Athletics