

Ismael Izzy Gomez

resume@izzygomez.com

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