Ismael Izzy Gomez

702.308.8493 • izzyg@mit.edu • izzygomez.com

Education

Massachusetts Institute of Technology	**Cambridge, MA**
Bachelor of Science in Computer Science and Engineering	Expected 2017
Master of Engineering in Electrical Engineering and Computer Science	Expected 2018

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

Experience

Facebook*	**Menlo Park, CA**
Software Engineer Intern	Summer 2017

Natural Language Processing Group @ MIT CSAIL*	**Cambridge, MA**
Undergraduate Researcher	September 2016 - Current

- Leading 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.

AlphaSights	**New York, NY**
Software Engineer Intern	January 2016

- Interned during the month-long winter term between semesters. Worked alongside the software engineering team on an in-house app built on Ember.js on the frontend and Rails on the backend.

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, which is an architecture simulated in Java optimized for high-performance, parallel computation
- A: Designed and refactored a benchmark program implementing the Hartree-Fock method, a quantum mechanics approximation algorithm, in a functional-programming variant of Java
- 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, Git, and various hardware testing tools
- Developed corresponding *Arduino software library*, simplifying use of Shield with brushed DC motors; final product solved issue of providing inexpensive motor driver capabilities to the Arduino platform

Skills

Languages: Python, C++, Java (Android), Javascript (Node, Ember, React), HTML/CSS

Tools: Zsh, Emacs/Atom, MongoDB, Docker, Meteor, AWS, Heroku, LaTeX, Git, OS X

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

*in progress, upcoming