Ismael Izzy Gomez

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Education

Massachusetts Institute of Technology **Cambridge, MA**
Bachelor of Science in Computer Science and Engineering Graduated 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 Systems Security, Computational Structures, Artificial Intelligence, Differential Equations, Linear Algebra

Experience

Yelp* **San Francisco, CA**
Software Engineer Intern Fall 2017

Facebook **Menlo Park, CA**
Software Engineer Intern Summer 2017
- Designed and implemented privacy checks in backend ads infrastructure on 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.

AlphaSights **New York, NY**
Software Engineer Intern Jan 2016
- Worked alongside the software engineering team on an in-house app built on Ember.js and Rails.

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: Python, C/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