

Ismael Izzy Gomez

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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

Natural Language Processing Group @ 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, jQuery, Ember), HTML/CSS

Tools: Zsh, Emacs/Atom, MongoDB, Heroku, L^AT_EX, Git, Unix-like OS's (OS X, Kali, Arch)

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

*in progress