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