

Miguel Medrano

471 Memorial Drive • Cambridge, MA 02139 • Phone: (915)502-0312 • Email: medranom@mit.edu

Education	MASSACHUSETTS INSTITUTE OF TECHNOLOGY Candidate for B.S. in Computer Science & Engineering, GPA: 3.5 <ul style="list-style-type: none">Relevant Courses: Software Studio, Elements of Software Construction, Machine Learning, Introduction to Algorithms, Computer Systems Engineering	June 2017 Cambridge, MA
Experience	MIT UNDERGRADUATE RESEARCH OPPORTUNITIES PROGRAM Undergraduate Researcher, Computational Biology Group of MIT CSAIL & Broad Institute <ul style="list-style-type: none">Developing Python/Flask web app and pipeline on cloud computing software to make visualizations and analysis of chromatin-state models available for third-party epigenomic ChIP-seq datasets.	January 2016 – Present Cambridge, MA
	STATE FARM Software Intern, Platform Innovation Team <ul style="list-style-type: none">Created a Tomcat server blueprint for use in automation of server provisioning using Puppet. This open-source version replaced a previous licensed version of a TcServer blueprint, saving the company costs with licensing.Contacted other company teams to report dependencies on past blueprint and possible impacts on using the replacement.Directed daily stand-ups for intern team.	June 2015 – August 2015 Bloomington, IL
	CUROVERSE Software Extern, Science Team <ul style="list-style-type: none">Built Bowtie2 and SAMtools pipelines to facilitate input of files and settings through a web application for user-friendly data processing and were launched for production in the company's bioinformatics platform, Arvados.	January 2015 – January 2015 Boston, MA
	MIT MOMENTUM PROGRAM Student <ul style="list-style-type: none">Produced prototype for altered quad-copter in a team of four students by implementing engineering design principles to add external circuitry.Designed circuit using an Arduino and carbon nanotube chemi-resistors in order to detect a varying resistance in the presence of ammonium.Presented final design to industry representatives and team won 2nd place out of eight teams.	January 2014-January 2014 Cambridge, MA
Leadership/ Activities	MIT LATINOS IN SCIENCE & ENGINEERING Vice President of Marketing <ul style="list-style-type: none">Managed group website and publicized events through posters, social media, and emails, achieving a consistent meeting attendance averaging 25 members.	January 2014 – May 2015 Cambridge, MA
	MIT LA UNIÓN CHICANA POR AZTLÁN (Latino Cultural Group) Chicano Grad Co-Funding Chair <ul style="list-style-type: none">Reached out to campus organizations, departments, and alumni to raise funding for the group's senior graduation ceremony. A total of \$5,000 were raised with a significant surplus of \$1,000.	August 2014 – May 2015 Cambridge, MA
	MIT Spanish House Living Group Treasurer <ul style="list-style-type: none">Maintained successfully a financial record for a living community of 30 members by keeping an updated database of all receipts for the group's meal plan. Updates were done once a month in which about 40 receipts were processed.	January 2014 – December 2014 Cambridge, MA
Awards	State Farm Speech Competition Finalist Team, For top 2 teams out of 21 in pitch presentations. Google Generation Scholar, For academic achievement and passion for computer science.	2015 2013
Skills	Software: Python - proficient, Java - proficient, JavaScript - intermediate, Bash - novice, Node.js, Express.js, Flask, MongoDB, HTML/CSS, JQuery, Ajax, Puppet, Linux, Git, LaTeX Languages: Spanish-Native Speaker, English-Fluent, French-Beginner	