**­EDUCATION**

**Massachusetts Institute of Technology (MIT) Cambridge, MA**

*Bachelors of Science in Computer Science, Minor in Management and Concentration in Negotiation June 2020*

*Relevant Courses: Introduction to Algorithms, Fundamentals of Programming, Python, Mathematics for Computer Science,*

*Multivariable Calculus, Negotiation Analysis, Managerial Communications*

**Facebook Above and Beyond CS,** *Participant* **Cambridge, MA**

* Improved data structure and algorithm skills by completing workshops coached by Facebook Engineers Fall 2018

**WORK EXPERIENCE**

**Northrop Grumman Innovation Systems,** *Engineering Intern* **Sterling, VA**

* Designed and implemented scripts to test satellite flight software functionality and modularity Summer 2018
* Automated time-expensive flight software tasks involving data collection to better allocate project resources
* Worked as part of the code review team analyzing satellite flight computer and camera software in C++

**MIT Computer Science Honor Society,** *Undergraduate Tutor* **Cambridge, MA**

* Provided academic support to students in need of additional instruction Sept 2017 – Present

**World Education,** *Winter Intern* **Cambridge, MA**

* Spearheaded transitioning adult literacy blogs from Weebly to Wordpress website using HTML Winter 2017

**MIT Makerlodge,** *Undergraduate Researcher* **Cambridge, MA**

* Mentored 20+ students at various Makerspace facilities to facilitate entrepreneurial pursuits Summer 2017
* Devised training programs for 3D printers, laser cutters, bandsaws, and drill presses to enhance efficiency

**PROGRAMMING PROJECTS**

***Automatic Flight Check-in tool (In Progress)*** Summer 2018

* *Developing a self-activating python tool in conjunction with Windows Task Scheduler that checks-in to user's flight and sends text message and email confirmation of the reservation and ticket*

***Digital Bulletin Board Project (In Progress)*** Summer 2018

* *Building python tool to web-scrape local bus times, weather, and announcements, and display on house monitor*

***Image processing (Completed)*** Fall 2017

* *Wrote photo-editing script to smoothen, cut out low-energy parts, invert colors and blur pictures for the gram*

***Mines Game (Completed)***  Fall 2017

* *Programmed the classic Mines Sweeper game and modified it to be playable in higher dimensions*

**LEADERSHIP EXPERIENCE**

**MIT Undergraduate Practice Opportunities Program (UPOP)*,*** *Participant***Cambridge, MA**

* Mastered communication, teamwork, and leadership skills through coaching from MIT alum and staff 2017 - 2018

**Sigma Nu Fraternity,** *Technology Chairman*  **Cambridge, MA**

* Led professional development workshops for 30+ participants Fall 2017
* Managed and updated fraternity website

**MIT Office of Undergraduate Advising and Academic Programming**, *Associate Advisor* **Cambridge, MA**

* Counseled eight incoming Freshmen how to succeed at MIT 2016 – Present
* Provided resources to members for academic development

**Society of Hispanic Professional Engineers,** *Undergraduate Member* **Cambridge, MA**

* Contributed to Hispanic community at MIT through involvement in community events 2016 – Present

**University of Interscholastic League (UIL),** *Co-Captain* **Edinburg, TX**

* Competed in mental and problem-solving mathematics competitions Sep 2012 – June 2016
* Taught teammates problem-solving skills to improve accuracy and speed

**ACHIEVEMENTS**

* Eugene and Margaret McDermott Scholar 2016 - 2018
* TMSCA Number Sense Mental Mathematics State 2nd highest score in Texas (Individual) 2015 - 2016
* AP Scholar with Distinction 2014 - 2016
* Questbridge Scholar 2016

**SKILLS AND INTERESTS**

**Computer:** Python, Java, C++, STOL, HTML, Git

**Language:** Fluent in Spanish

**Interests:** Reading, Glassblowing, Cooking, Classical Guitar, Chess, Intramural Sports, Calculated Risk