

Marco Antonio Rivera Jr.

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EDUCATION

Massachusetts Institute of Technology (MIT)

Cambridge, MA

Bachelors of Science in Computer Science, Minor in Asian and Diaspora Studies and Concentration in Chinese Language June 2020

Relevant Courses: Design and Analysis of Algorithms, Software Construction, Software Studio, Mathematics for Computer Science, Negotiation Analysis, Managerial Communications

Facebook Above and Beyond CS, Student

Cambridge, MA

- Improved data structure and algorithm skills by completing workshops coached by Facebook Engineers

Fall 2018

WORK EXPERIENCE

BlackRock, Software Engineering Intern

New York City, New York

- Built Java Data Extraction tool to mine and extract information from thousands of SEC company filings Summer 2019
- Created Chrome Extension to display financial and company acronyms for new hires and veteran employees
- Produced autonomous script mapping Bloomberg tickers to BlackRock's internal company issuer ids

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

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 2019

- 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 2019

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

LEADERSHIP EXPERIENCE

MIT Gordon Engineering Leadership Program (GEL), Participant

Cambridge, MA

- Strengthened technical leadership and teamwork skills through hands-on and theoretical coursework

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
- Managed and updated fraternity website

Fall 2017

MIT Office of Undergraduate Advising and Academic Programming, Associate Advisor

Cambridge, MA

- Counseled 15+ incoming first-years how to succeed at MIT
- Provided resources to members for academic development

2016 - Present

Society of Hispanic Professional Engineers, Undergraduate Member

Cambridge, MA

- Contributed to Hispanic community at MIT through involvement in community events

2016 - Present

ACHIEVEMENTS

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

SKILLS AND INTERESTS

Computer: Python, Java, Git, JavaScript, STOL, HTML

Language: Fluent in Spanish, Intermediate Chinese

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