Jonathan Esteban

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EDUCATION:

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

Masters of Engineering Program in Computer Systems   February 2022

Bachelor of Science in Computer Science   June 2020

RELEVANT COURSES:

Software Construction, Full Stack Web Design, Embedded Systems, Computer Architecture, Computer Security,

Machine Learning, Python, C/C++, Data Science, Algorithm Design and Analysis, Applied Cryptography, Privacy

Languages: Proficient in Python, JavaScript; Familiar with Java, Rust, C#, C++, HTML, CSS, SQL
Software Tools & Frameworks: Git, AWS, GCP, Docker, Kubernetes, Terraform, Unix Command-Line, Vue.js, React, Express.js
Other Skills: Fully Bilingual (Spanish, English), Photoshop, AutoCAD, Makerspace Tools, Microcontrollers, EE Lab Tools

WORK AND RESEARCH EXPERIENCE:

Cybersecurity at MIT Sloan Research Assistant   **Cambridge, MA**
Graduate Thesis Project   December 2020-May 2022
- Designing a web application to investigate the interaction of automated adversaries operating in simulated enterprise network environments; utilizing open source tools such as Microsoft Battle Sim and D3-force

Virtualitics Machine Learning internship   **Pasadena, CA**
ML/NLP Team   June-August 2021
- Leveraged ML.NET to implement Time Series Forecasting; ran benchmarks with synthetic and real-world data and conducted competitor analysis for the feature

CSAIL Document Processing Research Assistant   **Cambridge, MA**
Graduate Project Coordinator   May-December 2020
- Collaborated with 8 fintech companies to coordinate internal project proposals relating to the processing of corporate documents using preprocessing techniques and optical character recognition

MIT Internet Policy Research Initiative   **Cambridge, MA**
Multi-Party Computation Project   June-December 2019
- Designed the foundation for a web platform that would encapsulate a bare-bones C++ implementation of several cryptographic and multi-party computations
- Setup a MySQL database for the storage of credentials and an SMTP server to handle email tokens
- Followed many security best practices, including salting/hashing passwords, implementing CSRF tokens and CSP headers, as well as creating TLS certificates using Let'sEncrypt

Vivint Internship   **Boston, MA**
Video Analytics team   June-August 2018
- Worked on circumventing corporate firewalls using NAT traversing servers for WebRTC applications
- Used Docker, Kubernetes, Terraform, and Google's Cloud Platform to automate the setup of said servers and scale the infrastructure

LEADERSHIP AND ACTIVITIES:

Tennis Intramural Team, captain   **Cambridge, MA**
- Lead my team into the league's finalist qualifications in the Fall 2015 and Fall 2016 seasons   November 2015

Association of Puerto Rican students at MIT events chair   **Cambridge, MA**
- Served as a student liaison and contributed in organizing a 100+ conference through digital asset creation   March 2016

MIT Undergraduate Practice Opportunities Program (UPOP)   **Cambridge, MA**
                                                            November 2016-June 2017
- Completed an intensive one-week professional development workshop taught by esteemed MIT faculty and industry professionals, which explores topics such as effective communication, foundational decision-making, and teamwork