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-present

 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