

Hugo Renzzo Olcese

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EDUCATION

Hofstra University, Fred DeMatteis School of Engineering and Applied Science, Hempstead, NY

Bachelor of Science, Computer Science with conc. in Web & Mobile Engineering

Sept 2016 - Dec 2019

- Overall GPA: **3.88** || Summa Cum Laude; UPE's Member, Dean's List (6 semesters), Provost's List (1 semester)

Master of Science with Distinction, Computer Science

Jan 2020 - Aug 2020

- Overall GPA: **4.00**; UPE's Member, Provost's List (1 semester)

SKILLS

Programming/Scripting Languages: (Proficient) Java, Python, JavaScript, Flutter, Golang, PugJS, C++;

(Moderate) CUDA C, Solidity, C, C#, React, Angular, PHP, SQL, MongoDB, Swift;

Frameworks and Tools: Visual Studio Code, Node JS, Ethereum Blockchain, Bootstrap, Visual Studio, Angular Material, XCode, Git, NetBeans, Vim, Unity,

Operating Systems: Mac OS, Linux (CentOS, Kali, Ubuntu), iOS, Android, Windows

Languages: English, Spanish

SOFTWARE EXPERIENCE

Financial Analyst, BlackRock, NYC

Aug 2020 – Current

- Currently Working.

Summer Financial Analyst, BlackRock, NYC

May 2019 – Aug 2019

- Build the Frontend of the client-reporting software using Angular 5 and libraries such as ag-grid, angular material, etc.
- Communicate and work efficient with my team and other employees as I learned the basics of agile development
- Developed and design front-end screens using UI and UX design principles and strategies.

Summer Lead Researcher, Hofstra University, NY

May 2018 – Aug 2018

- Building next generation of intrusion detection system by monitoring every single machine instruction on CPU.
- Led and worked with 3 other programmers on Intel PT decoder and CUDA based GPU programming.
- Successfully captured buffer overflow attacks. Experiences with automated GDB scripting.

Coder School, Coder School, Roslyn, NY

Aug 2018 – Apr 2019

- Working with a wide range of different age groups of students to teach them the fundamental basics of programming.
- Act as many kids' first introduction to programming and try to spark the next generation of coders.
- Work with multiple different languages, such as Scratch, Python, Java, etc.

C.S. Tutor, Computer Science Department, Hofstra University, NY

Sept 2017 – May 2020

- Assist students in understanding CS fundamental concepts including data structures & algorithms
- Guide students to select best data structure and to come up with an efficient algorithm needed by assignments
- Provide students with resources for using relevant software and debugging code issues

IT Tech Lead Manager, Olcese Group Inc., Corona, NY

June 2013 – Current

- Diagnose computer problems and monitor computer processing systems.
- Installing software and perform tests on computer equipment and programs, setting up computer equipment, scheduling maintenance, teaching employees to use programs.
- Troubleshoot a large range of technical issues, such as firewall invasion, and reclaiming account information.

PROJECTS

FinSec

Fall 2018

- A stock trading platform designed to protect the integrity of trading algorithms developed by user
- Using the Pallier Encryption, Homomorphic Encryption and Zero Knowledge Protocol, we can guarantee that the financial algorithms that are developed on the platform will never be exposed to anyone
- Developed the Front-End and Account Management of the Project using Bootstrap, JavaScript, Spring, and Java.

Thesis Project (FinSec 2.0)

Spring 2020

- Version 2 of the FinSec Project, improved with faster transaction rates, and improved security properties.
- Applied Design Tools such as Bride Pattern, Adapter Pattern, Polymorphism to applied efficiently, and flexibility to an overall complex project and System Architecture.
- Developed the Ethereum Blockchain Component with Smart Contracts using Solidity, Golang Wrapper Class to act as a verifier and database for our system.

AWARDS

Code for Good, JP Morgan

Spring 2018

- 1st Place in JP Morgan's Code for Good Hackathon
- Developed a Website that help organized and run local events with Social Aspects like comments, and upvotes
- Ran and Developed with Postgres, Bootstrap, Node JS, and JavaScript

Hack Hofstra 2018, Hofstra University

Spring 2018

- 2nd Place
- A Web application, Uni-Eats, that schedule and places food orders for student, and delivered by students

Facebook CodePath Cybersecurity Certification

Fall 2017

- Recipient winner of two Facebook Enigma scholarships (2018 and 2019), two Facebook Developers Conference Scholarship (2018 and 2019), and Blackhat/Defcon Scholarship (2019)
- Tenth place (out of 50) in Facebook CTF and bug bounty competition 2018. (Top in number of flags captured)