

Alejandro S. Mera

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EDUCATION

Northeastern University, Boston, MA

PhD in Information Assurance

May. 2021

Northeastern University, Boston, MA

Master of Science in Information Assurance and Cybersecurity

Dec. 2016

The University of the Armed Forces (ESPE), Sangolquí, Ecuador

Master's in management and Telecommunication Networks

Jan. 2014

Army Polytechnic School (ESPE), Sangolquí, Ecuador

Bachelor of Science in Electrical Engineering

Mar. 2007

TECHNICAL SKILLS

Languages: Visual Basic .Net, C#, C, Python, bash, HTML, PL-SQL

Operating systems: Linux (Oracle, Centos, Ubuntu, Debian), Windows

Databases: Oracle 11g, SQL server, MySQL

Software: Oracle E-Business Suite, Visual Studio, WordPress

Tools: Burp suite, Wireshark, Nmap, Metasploit, Nessus/Openvas, GDB, OllyDBG

Networking: CISCO switching and routing

Certifications: Certified Ethical Hacker (CEH)

WORK EXPERIENCE

TCS Industrial, Quito, Ecuador

Mar. 2017 – Aug. 2017

Senior Engineer

- Designed and implemented security practices for software and hardware development.
- Led a team for developing digital odometers that collect information from buses using a distributed sensor network based on Zigbee.

Cigital, Boston, MA

Jun. 2016 - Aug. 2016

Security consultant (Intern)

- Performed manual vulnerability assessment and penetration testing of web applications according to OWASP 10 and ethical hacking runbooks.
- Developed personalized reports and mitigation strategies for common vulnerabilities and exposures (CVE) discovered in web applications.
- Completed assessment training camp including challenges for XSS, SQL injection, cryptology, code review, reverse engineering, and binary exploitation with ROP techniques for Linux and Windows.

EP Petroecuador, Quito, Ecuador

Sept. 2008 - Dec. 2014

Applications Analyst

- Administered company's ERP, patching the system, hardening OS, and supervising the IT platform (primarily Oracle Enterprise Linux, Oracle EBS, and Oracle database 11g).
- Conducted security risk and vulnerability assessment of the ERP IT platform (software, hardware and network) to identify information threats and mitigation strategies.
- Developed web and desktop applications using ASP .Net and Winforms technologies to integrate human resource subsystems.

Sigmatron Ltd., Quito, Ecuador

June 2007 – Sept. 2008

Founding member / Developer Engineer

- Designed a universal access control system for Mitsubishi elevators using embedded controllers, RFID, .Net desktop application and SQL Server.
 - Developed firmware for microcontrollers using C compilers and assembler language.
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PROFESSIONAL MEMBERSHIPS AND AWARDS

Memberships: ISACA

ISSA, Northeastern University chapter

Award: SENESCYT scholarship program “CONVOCATORIA ABIERTA 2013 – SEGUNDA FASE”

INTERESTS

Outdoors activities including camping, biking and hiking.