Pedro Urbina

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EDUCATION

CORE Technical Program, Denver CO
SecureSet Academy 2018
Classroom based cybersecurity training
- Network, Systems Security
- Governance, Risk, and Compliance
- Detection, Logs, and Analysis
- Cryptography

University of Miami, Coral Gables FL

Bachelor of Science in Computer Science (In Progress)

Relevant Courses
- Computer Organization and Architecture
- Systems Programming
- Data Structures and Algorithms
- Networks

Bloc, San Francisco CA

April 2014 - April 2017

Full Stack Web Development Track
- Back end fundamentals developed through a project portfolio built on Ruby on Rails
- Front end foundations built on Angular projects.

Software Engineering Principles Track
- Data Structures, Algorithms & Complexity Analysis, Database Management

EXPERIENCE

Freelance Web Development

May 2015 - Current

Developed and maintained websites, managed client expectations and implementations.
- ForwardITSolutions.net
- ElHappyCoach.com
- Wvum.org

SDSol Technologies

March 2014 - June 2014

Arduino Programming for MyPark Project
- Analyzed circuitry for power consumption optimization.
- Collaborated with existing development team to implement GSM and Bluetooth integration and protocols.

SKILLS

Languages:English, Spanish, Python, Java, Javascript, Ruby, BASH, Powershell, Go, Swift, SQL, C/++, HTML, CSS
Software: nMap, Metasploit, Burp, Snort, Radare2, GNU Radio, Ollydbg, Hopper, ETE3, Pandas, Kali, Windows, MacOS, Ubuntu/GNOME, CentOS
Architectures: Material Angular, Ruby on Rails, LAMP
Interests: Reverse Engineering, Machine Learning, Cryptocurrencies, Digital Signal Processing, Multicopters, Skateboarding, Luthiery

ACTIVITIES

- Certified Ethical Hacker (EC-Council)
- Security+ Certified (CompTIA)
- Webmaster - WVUM 90.5FM
  - Maintenance and operation of current site
  - Restructuring site for Angular 2
- Secretary - Institute of Electrical and Electronics Engineers (IEEE)
- Secretary - Association for Computing Machinery(ACM)
- Students for the Exploration and Development of Space(SEDS)
  - Drafted proposal for ARISS Contact Event
- FCC Certified Amateur Radio Technician(KM4ZHU)
- Contributor to Sandsifter Tests (@xoreaxeaxeax)
- SecureSet CTF Events
- DEFCON24 Attendee
- ShellHacks2017 Attendee
- SNOWFROC 2018 Attendee

PROJECTS

Collatz Trees with ETE3
- Deep dive into ETE3 Python Toolkit to represent the Collatz Conjecture
- Refactored codebase for parallel optimizations, GPU acceleration, and cloud containers
- Delivered presentation for Tech Confluence Denver and Lightning Talks @ SecureSet

Radare2 & PwnTools
- Reverse Engineering Overview with Practical Malware Analysis (Sikorski & Honig)
- PoC || GTFO Exercises
- GIAC GREM Preparation

GNU Radio and BladeRF
- Digital Signal Processing Exploration
- GPS Spoofing, GSM Interception, Wifi Injections
- GRC Python Block Development

Amazon Alexa App Developer
- Math Facts
- Angular Trivia
- Clone Quest

Totem (Anonymous Wifi-Served Bulletin Board)
- Developed a native wifi served anonymous forum
- Miami Make Week Pitch Competition Finalist
- A digital bulletin board for information dissemination and community integration