

# Nicholas Donarski



## SR. INFORMATION SECURITY SPECIALIST

"Kizz MyAnthia"

*Multi-certified Expert in Enterprise Security Strategies*

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### OBJECTIVES

A cybersecurity and blockchain specialist whose qualifications include an in-depth understanding of security principles and practices; C|EH, MCSE +Security CPS designations; and detailed knowledge of security tools, technologies, and development. 20 years of technical engineering leadership experience in creating penetration testing programs and successful testers, deployment of solutions to protect global distributed network systems, and developing custom assets for diverse companies and organizations.

### Technology Summary

- Security:** Network Security Scanners (NeXpose, LanGuard, Qualys, OpenVAS); SSL; Digital Certificates; Anti-Virus Tools (Norton, Symantec, Ghost, etc.); Penetration Testing Frameworks (OWASP, Metasploit, BackTrack); Mobile (Smartphones, Windows Mobile, Android); Real-time GPS Tracking; Communications Security(TxRx, IP/TCP/UDP, Tradecraft); High Threat Environment Risk Analysis; Adversarial Machine Learning
- Blockchain:** Web3, Ethereum, Polygon, Binance, BSC, Hyperledger Fabric, Hyperledger Sawtooth, Smart Contract Security Testing and Analysis. NFTs, CryptoCurrency, Bitcoin, Solidity, Hardhat, Truffle, Remix, OpenZeppelin Defender, Gnosis, Multi-signature wallets, DAOs, NFT Gaming, Moralis
- Systems:** Unix-Based Systems (Solaris, Linux, BSD); Windows (all)
- Networking:** LANs, WANs, VPNs, Routers, Firewalls, TCP/IP
- Software:** MS Office (Word, Excel, Outlook, Access, PowerPoint); GFI LanGuard; Rapid7 NeXpose; NMap; Aircrack-ng Suite; Metasploit; RFID IO Tools; Ollydbg; Wireshark; Ettercap; Bluetooth Utilities; Databases (MySQL, MSSQL, PostgreSQL, Oracle); HP WebInspect; Acunetix WVS; Burp; ELK Stack; Tensorflow; PacketBeat; Filestash

## EXPERIENCE

### ORE Sys LLC | Technical Co-Founder

2021 – Current

- Worked to build technical business cases and architecture for clients
- Focus on cybersecurity in distributed ledger technologies (DLT), hyperledger, and blockchain applications for enterprise clients
- Developed applications and security tools in Go, Node, React, PHP, Solidity, and mobile (iPhone/Android)
- Worked with bleeding-edge technologies in healthcare, logistics, entertainment, and gaming

### Red Team Principle | OccamSec LLC

2017 – 2022

- Helped develop and build a successful penetration testing and cyber security consultancy through direct hands-on team leadership
- Built policies, procedures, training, and career development programs
- Worked with clients to ensure their security was in line with their business application and risk mitigation strategies
- Worked with third parties for tools/software acquisition
- Experienced personnel management and mentorships programs
- Application, Network, and Mobile penetration testing was a daily activity in my position

### CISO | Kore-Tek Inc

2016 – 2022

- Worked with government and large enterprise fiber optic clients to develop custom solutions for fiber networking
- Developed security programs and tools to improve Kore-Tek's skillset and cyber security offerings for government clients
- Experience working within fedramp systems and hands-on development of Cisco and Nokia fiber optic networking equipment

### Sr. Penetration Tester, Covert and Clandestine Operations Instructor |

### KMA & Associates

2015 – 2017

- Hands-on experience performing physical and technical red team engagements
- Development of field equipment and tools used for government and military clients
- Field training and application of tools in challenging deployed environments
- Physical Department of State security certification
- Executive protection, counterintelligence, and offensive security experience through open-source and custom-built tools

- Application, Network, and Mobile penetration testing was a daily activity in my position

#### Red Team Principle | K2 Intelligence, Inc

2015 – 2016

- Develop and build offensive security policies and procedures for the organization to use for client services
- Active open-source intelligence gathering and background checks
- Application, Network, and Mobile penetration testing was a daily activity in my position
- Work directly with clients and third parties during incident response engagements

#### Lead Instructor – Covert Communications and Clandestine Operations | Executive Security International

2015

- Taught technical training programs for physical operations specialists
- This position included radio operations, internet security, and communication protocols to bypass local environment controls
- Satellite communication and basic electronics engineering provided to students

#### Sr. Penetration Tester | HP FoD – Shadow Labs

2013 – 2015

- Founding member of HP ShadoLabs
- Focused on Application security and hands-on penetration testing
- Performed mobile testing
- Helped build the foundation of HP Fortify on Demand

#### Sr. Penetration Tester | Rapid7

2011 – 2013

- Part of the original Rapid7 Professional Services team
- Performed penetration testing engagements with a balance between network and applications
- Taught or Talked at over 100+ conferences while part of the Rapid7 team around the globe

#### Information Security Consultant, Penetration tester – Audit (PCI) | Halock Security

2009 – 2011

- Worked with clients to perform PCI penetration tests
- Focus on Network penetration testing
- Worked with local and national clients

#### Information Security Specialist, Information Security Forensics Consultant |

## Secure Data Forensics

2002 – 2008

- Data forensics and recovery work
- Hard drive recovery
- Hard drive analysis

## Network Administrator, Information Technology Consultant, Information Security Specialist | ND Technical Associates

1999 – 2008

- I started my first company during my sophomore year of high school
- I gained my high school as my first client
- Network administration, including windows NT and Novel Netware
- Active Directory experience

Became an expert in information systems security for multiple clients and employers. *Recent Project Highlights:*

- **Blockchain, NFTs, Cryptocurrency:** Specializing in the development and deployment of smart contracts, chaincode, and blockchain architecture provides the businesses requirements of the future. Ethereum, Binance Smart Chain, Polygon, Avalanche, Fantom, Solana, and Hyperledger have been the focus of recent projects. In addition, Nicholas's direction and development has completed the full development of DAOs, NFTs, cryptocurrencies, and blockchain enterprise projects.
- **Machine Learning & Adversarial Machine Learning:** Current trends are pushing organizations to integrate further autonomous systems, deep learning systems, and big data. Focused deep research into both the understanding of machine learning in its various forms and the potential of the adversarial machine learning model pose great benefit and potential new security vectors for enterprises worldwide.
- **PCI Compliance:** Currently with Fortune 500 clients to test, develop, secure, remediate, and validate security implementations to provide PCI Compliance. This includes retail operations and systems, eCommerce applications, and the supporting network infrastructure.
- **Penetration Testing:** An active member of the Information Security Community, working with other IS members, has developed applications and profiles to streamline and further the testing platforms, applications, and frameworks. In addition, he leveraged his understanding and ability to "think outside of the box" to leverage attack vectors via uncommon system exploitation methods. One instance was the ability to access a point-of-sale system to execute commands via a barcode scanner.
- **Mobile Devices:** Specializing in the in-depth understanding of mobile devices and their integration into society, he has spent time in the development and testing of the security posture of these devices. Building on his knowledge has worked to develop similar tools used to perform security audits on computer systems and networks in the smartphone environment.
- **Social Engineering:** Specializing in Social Engineering, he has used his technical knowledge and intellect to exploit weaknesses in human behavior. With an understanding of human psychology and behavior, he can leverage human reactions to display weaknesses in organizations. This information and skill have allowed him to work with organizations to develop security training programs and procedures to ensure that the events do not cause a future incident.

- **Infrastructure:** Led comprehensive security infrastructure upgrades (e.g., firewall/VPN upgrades, intrusion detection, token-based authentication, and remote management) for various midsize and large companies.
- **Risk Management:** Protected vulnerable networks following detailed risk assessments. He guided cross-functional teams in the design, validation, acceptance testing, and implementation of secure, networked communications across remote sites for several key clients.

### Certifications

- Certified Smart Contract Analyst
- Certified Solidity Game Developer
- Certified Enjin Blockchain Game Developer
- Certified Solidity Developer
- CPS, 2015
- Metasploit for Penetration Testers, 2014
- Penetration Testing with Kali Linux, 2013
- OWASP Top 10 (InfoSec), 2013
- Advanced Web Attacks and Exploitation, 2012
- Hacking By Numbers: Combat Edition, 2009
- C|EH, 2008
- MCP, 2005
- MCSA, 2005
- MCSE, 2005
- MCSA+S, 2005
- MCSE+S, 2005

### Key Skills

- Network & System Security
- Risk Management
- Vulnerability Assessments
- Authentication & Access Control
- System Monitoring
- Regulatory Compliance
- System Integration Planning
- Multitier Network
- Architectures
- Encryption
- Reverse Engineering
- Social Engineering
- Penetration Testing
- Application Development
- Physical Security
- Policy and Procedure Development and Review

## EDUCATION

### Currently Pursuing

#### Certified Ethereum Architect

Expected completion 2023  
Certified Ethereum Architect

#### Certified Hyperledger Architect

Expected completion 2023  
Certified Hyperledger Architect

#### Certified Blockchain Project Management

Expected completion 2023  
Certified Blockchain Project Manager

#### Certified Business Management

Expected completion 2023  
Certified Blockchain Business Manager

### Currently Obtained

#### Ethereum Smart Contract Security

2021  
Certified Smart Contract Analyst

#### Bitcoin Attacks

2021  
Bitcoin Security Analyst

#### Ethereum Game Programming

2021  
Certified Solidity Game Developer

#### Enjin Blockchain Development

2021  
Certified Enjin Blockchain Game Developer

#### Ethereum Smart Contract Programming 101

2021  
Certified Solidity Developer

#### Ethereum Smart Contract Programming 102

2021  
Certified Solidity Developer

#### Red Teaming In The Real World

2016  
Certified Red Team Specialist

#### Executive Security International

2015  
Certified Protection Specialist – with Honors

#### Hacking By Numbers: Combat Edition

2009

#### Certified Ethical Hacker

2008

#### MCP, MCSA, MCSE, MCSA+S, MCSE+S

2005

## Publications & Speaking Engagements

<b>Conference Chairman:</b>	BSidesMSN	<b>Madison, WI</b>
<b>Conferences Spoken At:</b>	CES 2023	<b>Las Vegas, NV</b>
	NotACon2011	<b>Cleveland, OH</b>
	BSidesChicago	<b>Chicago, IL</b>
	Secure360	<b>Minneapolis, MN</b>
	BSidesDetroit	<b>Detroit, MI</b>
	BSidesPGH	<b>Pittsburgh, PA</b>
	BSidesCT	<b>Meridan, CT</b>
	BSidesLV	<b>Las Vegas, NV</b>
	BSidesLA	<b>Las Angeles, CA</b>
	BSidesSF	<b>San Francisco, CA</b>
	BSidesCHS	<b>Charleston, SC</b>
	SecTor	<b>Toronto, ON, Canada</b>
	DeepSec	<b>Vienna, Austria</b>
	ISACA	<b>NUMEROUS</b>
	HouSecCon	<b>Houston, TX</b>
	BSidesROC	<b>Rochester, NY</b>
	CanSecWest	<b>Vancouver, BC, Canada</b>
	Rocky Mountain InfoSec Con	<b>Denver, CO</b>
<b>Publications &amp; Projects:</b>	Enterprise Security Magazine	The future of Blockchain technology is changing our world. Enterprise Security Magazine has noted Nicholas Donarski's vision as one of the Top 10 Solution providers of 2022.

Tactical Unicorns	Full HD 4K Online Multiplayer First Person Shooter featuring co-workers and friends as the in-game playable characters
Fight For The White House	3D Online Multiplayer Side by Side Fighter game available on the Google and Apple stores.
The WMD Project	An open-source utility for penetration testing from the smartphone platform.
NeXpose Reporting Tool	A joint project for producing usable reporting data from Rapid7 NeXpose Scanning data.
Into The Wormhole: MSF for The Web Hacker	Hands-on MSF training was created and presented at over ten conferences around the world.
Metasploit Training	Mapping The PenTester's Mind: The workshop shows attendees an outline of a successful infosec and pentesting program and provides the tools and know-how to integrate it into their organization.
Mapping The PenTester's Mind	A bridge gap series empowering attendees with the knowledge, questions, and guidance for integrating successful pentesting programs into their organization from the manager's / auditor's / business perspective.
Don't Bite The ARM That Feeds You	A bridge gap series empowering attendees with the knowledge, questions, and guidance for integrating successful pentesting programs into their organization from the pentester's / IS/IT Administrators / Consultants that need to translate their hands-on work.
SpyGame: Red Teaming In The Real World	Applying real Red Team methodologies, psychologies, and actions through in-depth training
Bond Tech: "I Want More Than Movie Props"	Everyone wants to be James Bond, but I always wanted to be Q. Looking at toys and tools available on the internet, anyone can be 007 or bypass an organization's security at the same time.
Project "REAVAR" & "SCOUT"	Currently developing an Open Source UAV and UGV project.