

# ROBERT MOONEY

SEATTLE, WASHINGTON  
UNITED STATES OF AMERICA

Seasoned consultant and engineer with a penchant for security assurance and product development. Penetration tester, software developer, security analyst and researcher. Looking for a hybrid role in which to build and offer services to protect critical assets. US Citizen. Travel OK.

## RELEVANT WORK EXPERIENCE

### Principal Consultant, Casaba Security 2009-Present

Software and network security consultant responsible for software and infrastructure security analysis, penetration testing, secure software design and implementation, policy definition and guidance for a variety of Fortune 500 and educational institution clients. Penetration test lead and red team manager, lead developer of a static/dynamic analysis aggregation system written in C#/PowerShell, co-author of patent-pending intellectual property, contributor to the Watcher web security tool, lead developer of a port of the Microsoft Bing CAPTCHA system from AWS to Microsoft Azure, developer of a federated authentication system for a workgroup within the University of Washington. Multiple contributions to the Microsoft SDL.

### Senior Software Engineer, Microsoft 2005-2008

Software engineer on the Forefront product suite. Designed and implemented an extensible network discovery feature, implemented a Windows service in C++ to schedule and run security assessments on client PCs, designed and implemented a Windows service in C# to retrieve malware metadata. Performed reviews of threat models, designs, and implementations of numerous features. Owned and shipped multiple components over multiple releases.

### Research Software Engineer, Internet Security Systems 1997-2000

Member of the ISS X-Force. Developed and maintained the first commercial security vulnerability database on the Web. Performed security vulnerability research, implemented numerous Internet Scanner and RealSecure IDS checks and signatures. Implemented the first mechanism to avoid TCP/IP stack fingerprinting as a kernel module for OpenBSD. Maintained web site backend.

### System Administrator, Northland Communications 1996

System and network administrator for a regional ISP. Provisioned, managed, and provided on-site support for Internet connectivity. Installed and maintained routing equipment and operating systems. Developed network monitoring tools.

*Code samples and FOSS commits/aliases available upon request.*

## WORK/LIFE BALANCE

Avid rower and backcountry snowboarder. Aspiring private pilot and hardware security engineer. Strong interest in business, finance, investing, and law. Fascination with particle physics.

## FREQUENTLY USED TECHNOLOGIES

C  
C#  
Ruby  
Bash  
PowerShell  
macOS  
Linux  
Windows  
Microsoft Azure  
Google Cloud Platform

## FREQUENTLY USED APPLICATIONS

Vim  
Git  
GPG  
Burp Suite  
Nessus  
Nmap  
Visual Studio  
Visual Studio Code

## PROJECTS

Packet visualization and construction tool for Windows in C#; SSH file manager for Windows in C++; Digital audio extraction tool w/ CDDB support for BSD in C; SAX XML parser class for BSD and Windows in C++; ftp-proxy patch included in OpenBSD 3.2; identd user-specified token option included in OpenBSD 2.8; High-port DCC send for BitchX IRC client 1.0c18; contacts retrieval tool for Windows Mobile written in C++/ DCOM; password brute-force utility written in Ruby; Various iterations of network discovery tools written in C, C++, Python, C#; Web application firewall in C++.

## PATENTS

*Principal Access Determination in an Environment - US 20170353453*