

JUSTIN M. WRAY

7953 Saint Claire Lane

Baltimore, MD 21222-3532

(410) 477-2396

wray.justin@gmail.com | <http://www.justinwray.com>

SUMMARY

I have over ten years of combined, concurrent networking experience (personal and professional). Additionally, I have extensive experience in network security implementation and management. I frequently participate in **Penetration Testing** and **Vulnerability Assessment** - usually as the lead "pen-tester" - and in **Incident Response**. Furthermore, I have discovered, researched, and disclosed numerous vulnerabilities in both networking appliances and operating systems/applications services.

Professionally, I have maintained and developed backend databases, using: **MySQL**, **SQLite**, **PostgreSQL**, **Microsoft SQL Server**, and **Alchemy** in addition to maintaining and developing front-end web applications using **PHP/HTML**. I am experienced in both **proprietary** and **open source** applications - participating in the development of many open source applications. Likewise, I have provided **hardware** installation and support while **supervising** a PC repair shop. From a managerial standpoint, it should be noted that I have **managed** many projects - including in professional capacities, educational settings, and freelance operations. Currently, I am leading several **technical projects** with my current employer and am responsible for the **training** of new hires.

I have long-term **programming** experience (personal and professional) with multiple high level languages and in addition to holding the **Linux+**, **Security+**, **Certified Ethical Hacker**, and **Certified Penetration Tester** I hold an **Associates of Applied Sciences** degree in **Information Security** and am currently trained for the following certifications: **A+**, and **Network+**, **Cisco (CCNA)**, and **Red Hat (RHCE)**.

My proficiencies include: **Windows 98 thru Windows 7**, **Linux 2.4 kernel thru 2.6**, and **OSX** - with some experience using **Sun Solaris** systems. In addition, I am advanced in using **Microsoft Word**, as well as **Open Office**.

WORK EXPERIENCE

JACOB & SUNDSTROM, INC Baltimore, Maryland October 2007 to Present

Network Security Engineer and Researcher (March 2009 - Present)

- Perform Research for New Projects
- Provide Testing of New Tools and Methodologies
- Involved in Development of Intrusion Detection Systems, Tools, and Mechanisms
- Plan and Create Security Solutions
- Perform Testing and Auditing for Current and New Products
- Maintain, Update, and Deploy Large Code Bases
- Integrate Solutions into a Large Production Environment
- Engineer Network Security Plans and Goals
- Develop Training Curriculum for New Hires
- Coordinate and Provide Training for New Hires

Senior Network Security Analyst (October 2007 - March 2009)

- Provide Real-Time Analysis of Network Traffic to Adequately Detect Intrusions and Vulnerabilities
- Coordinate Network Incident Handling with Sites World-Wide
- Manage and Develop Intrusion Detection System Signatures and Rulesets
- Maintain, Update, and Disseminate Daily Vulnerability and Intelligence Reports
- Release Situation Awareness Reports When Needed

- Involved in Development of Intrusion Detection Systems, Tools, and Mechanisms
- Provide Testing of New Tools and Methodologies
- Advise Client of Security Risks Involved in Specific Tasks
- Engineer Network Security Plans and Goals
- Develop Training Curriculum for New Hires
- Coordinate and Provide Training for New Hires

COMMUNITY COLLEGE OF BALTIMORE COUNTY Baltimore, Maryland August 2010 to Present

Adjunct Professor, School of Applied and Information Technology, Network Technology

- Teach multiple Security and Network classes
- Develop Lesson Plans, Quizzes, Tests, and Exams
- Deliver Class Lectures and Administer Class Laboratory Exercises
- Design Semester Projects which provide real world application of taught skills
- Provide Students with Support, Motivation, and Assistance

CONSTELLATION ENERGY GROUP Baltimore, Maryland August 2006 to October 2007

Level II - IT Support Technician

- Provide Level II technical support
- Review large scale technical issues
- Departmental Liaison between multiple departments and Support Center
- Develop and maintain new hire training information/schedule
- Provide training of new personnel
- Manage a number of technical projects and supporting teams
- Assist in the creation of support tools
- Author documentation for knowledge bases and training materials
- Maintain knowledge bases used within the Support Center and multiple support units.
- Complete other in-house projects as assigned

PIRAEUS INTERNATIONAL Baltimore, Maryland September 2006 to December 2007

Security Consultant/Network Administrator

- Design and implement security solutions
- Provide consultation on IT business solutions
- Design, implement, and maintain infrastructure
- Secure and service multiple Windows and Linux servers
- Incident response and security monitoring

HI - TECH PROCESSING SERVICES, INC Essex, Maryland August 2005 to August 2006

Network Administrator / Tech Supervisor

- Managed public PC Repair shop
- Developed processes for new projects and work
- Services and supported internal computers, printers, and phones
- Secured internal computers, printers, and telecoms system.
- Member of New Technologies Development Group
- Evaluated new technologies for implementation throughout the organization

- Created and maintained multiple databases
- Designed and developed Intranet site for Corporate Communications
- Managed multiple production and public web servers
- Monitored multiple production and DMZ servers - as well as Firewall and Network Intrusion Prevention System

FREELANCE/CONSULTING Baltimore-Washington Area, Maryland 2002 - Present

- Implementation and development of security solutions
- Network Design and Management
- Support computers, printers, and telecommunication systems

PERSONAL EXPERIENCE

- Discovered a Remote Denial of Service Vulnerability in multiple consumer and SOHO network perimeter devices [Security Focus Bids: 15870, 15869, 15864, 15861]
- Multiple Undisclosed Vulnerabilities
- Involved in development of multiple projects - including OpenPKI, LAK-IPS/snort, BackTrack, and PBNJ
- Wrote community-college curriculum in the area of Information Security
- Participation in improvement of CyberWatch (collaboration between multiple two-and-four year colleges to standardize information security coursework, degrees, and certifications)
- Served as Guest Lecturer in college level Information Security courses
- Develop Information Security Labs, Lectures, and Curriculum for 2-4 year colleges
- Presented speech to the NSF (National Science Foundation) on the topic of Progression of Information Security curriculum
- Participate on both offensive and defensive teams in cyber exercises and competitions

EDUCATION

Associates of Applied Sciences - Community College of Baltimore County

ADDITIONAL EDUCATION

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|------------------------------------|--|
| • Data Communications | • LAN Advanced |
| • Cisco (CCNA) | • Network Security |
| • Network Defense/Counter-Measures | • PC Repair |
| • PC Troubleshooting | • Linux |
| • Intro to Programming | • C/C++ |
| • Object-Oriented Programming | • Independent Project (Security Engineering) |

ACTIVITIES

- Red-Cell Member, Mid-Atlantic Collegiate Cyber Defense Competition - 2009-Present
- Silver Medal Red-Cell winner: Cyber Dawn Exercise 2009 (Haymarket Virginia)
- Captain, Collegiate Cyber Defense Team - Community College of Baltimore County, 2005-2008
- Gold Metal winner: 2008 Mid-Atlantic Collegiate Cyber Defense Qualifier-January 2008 (Lancaster Pennsylvania)
- Silver Metal winner: 2007 Mid-Atlantic Collegiate Cyber Defense Competition-March 2007 (Hunt Valley, Maryland)
- Bronze Metal winner: 2006 Mid-Atlantic Collegiate Cyber Defense Competition-March 2006 (Lancaster, Pennsylvania)