

Marshall Moutenot

1702 Cedar Lane, Nashville, TN 37212

Phone: 615.519.7142 E-Mail: mmoutenot@gmail.com

Objective

Find internships that combine security research with development. Learn more about creating security scanning tools.

Education

Tufts University, Medford MA

Bachelor of Science in Computer Science, 2013

Research - Computer Science (September 2009 - Present)

Applying social networking partitioning algorithms and graph theory to metabolic networks to help determine the effectiveness of delivered drugs to the liver. Create efficient algorithm to count cycles in a directed graph.

Relevant Coursework

Machine Structure and Assembly in C, Discrete Mathematics, Game Development in C# / XNA, Web Programming, Computational Theory, Digital Logic Circuits, Data structures in C++, Machine Learning (Fall 2011), Algorithms (Fall 2011)

Experience

Microsoft Seattle, WA

SDET

May - September 2011

- Create IDN Scanner to detect confusing URLs registered by third parties
- Develop competitive automated security testing tools to detect vulnerabilities (XSS, open redirect, null byte injection, etc). C# development with SQL backend.
 - Highly performance oriented (<1 second per URL)
 - High level reporting and web user interface (AJAX, HTML5, ASP.NET)
 - Low false positive rate (<6%)

Emma, Inc. Nashville, TN

Systems Administrations Intern

April - September 2010

- Systems Administration: Shell and Bash script programming, server installation, network analysis
- Network Security: Nessus security scans, Nmap network scans, SQL injection, DVWA exploitation

General Intern / Systems Administrations Intern

May - September 2009

- Security flaw detection and management with Nmap and Nessus
- Automated security report generation with Cronjobs and Apache web framework.

Development Intern

May - August 2007

- Created a visual representation of consumer location and density using Google Maps API, PHP, and PostresSQL.

University School of Nashville Computer Courses Nashville, TN

2007 - 2010

Director, Head Instructor

- Initiated computer education for rising 5th through 9th graders. Lead teacher in Flash, Photoshop, Web Design, Lego Robotics, Programming (with Robocode and Python), Alice, and Film classes.
- Managed employees, business assets, advertising, and customer relations.
- Developed a profitable small business that is now in its 4th year.

Activities

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| <ul style="list-style-type: none">• Defcon/B-Sides Attendee (2011)• Unix Systems Administrator (2009 - Present)• WMFO Exec Board - Ops Director (2009 - Present)• Lost Boys of Sudan Volunteer and Technical Director (2005 - 2009) | <ul style="list-style-type: none">• Security Research, Pentesting• Private Pilot Training (2010 - Present)• DJ (2005 -Present)• Traveling Treasure Trunk Children's Theater (2010 - Present), |
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