# Marshall Moutenot

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## 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)
Apply 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 (also **TA**), Discrete Mathematics, Web Programming, Computational Theory, Data structures in C++ (also **TA**), 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 anaylsis.
- 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**
Founder, 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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| • Defcon/B-Sides Attendee (2011) | • Security Research, Pentesting |
| • Unix Systems Administrator (2009 - Present) | • Private Pilot Training (2010 - Present) |
| • WMFO Exec Board – Ops Director (2009 - Present) | • DJ (2005 -Present) |
| • Lost Boys of Sudan Volunteer and Technical Director (2005 - 2009) | • Traveling Treasure Trunk Children's Theater (2010 - Present), |