Jeffrey M. Tyson

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Education

Michigan Technological University Houghton, MI U.S.A. • B.S. with a major in Computer Sci., and B.S. with a major in Computer Networking and System Administration • Mathematics Minor, 2008
Cumulative GPA: 3.68/4.00 • Selected Coursework:

Computer Science Discrete Structures · Data Structures · Object Oriented Design · Team Software Project · Computer Architecture· Operating Systems · Formal Models of Computation · Algorithms · Programming Languages · Parallel Programming · Adv. Computer Architecture

System Admin. Tech. Unix and Linux Admin. · Network Engineering · Network Security · Adv. Network Security · Wireless Computing · Web/App Server Admin. · Storage Area Networking · Directory Services

Mathematics Multivariable Calculus · Linear Algebra · Cryptography · Statistical Methods · Real Analysis · Abstract Algebra · Number Theory · Game Theory

Work History

Michigan Technological University - Computer Systems and Network Administration (2008-Present)
Research Assistant   Hours Per Week: 20

- Research for professors in network security related topics.
- Identification technologies are being examined for local area hospitals, including smart carts.
- Creating an easily deployable network security lab. The goals of which are for each team to secure their computers promptly followed by attempting to find and exploit vulnerabilities in other team's computers.

Michigan Technological University - Computer Systems and Network Administration (2008-2009)
Web Developer   Hours Per Week: 20

- Updated the department's website using CSS, HTML, and PHP.
- Revamp the website to be more interactive and dynamic.

Michigan Technological University - Summer Youth Program (2008)
Instructor   Hours Per Week: 45

- Taught a five-day curriculum that started with basic network concepts and evolved to network engineering and security.
- Interested high school students in networking and security.
- Created much of the interactive portions of the curriculum.

Mikron Infrared (2006-2007)
Programmer   Hours Per Week: 18

- Modified existing Visual Basic code to make it suitable for many languages (German, French, Spanish, etc.).
- Built part of a completely revamped GUI for infrared camera control.

REMC #1 (2005-2006)
Technician   Hours Per Week: 25

- Created scripts to automate tasks including backups, automatic device configuration, user importing, etc.
- Supported hundreds of users in person, email, and through the phone.
- Researched software solutions for various deficiencies in the system.
- Wrote papers to explain decisions to upper management.

Skills

- Proficiency in software development in Java, Python, C, C++, PHP, JavaScript, Perl, Assembly, Visual Basic, Scheme, and BASH.
- Expertise with Regular Expressions, Threads, Sockets, Database Design, Network Design, System Hardening, SQL, and LaTeX.
- Familiarity with UNIX, OS X, GNU/Linux, and Win32.

Honors and Awards

- Received first degree black belt in Shorinji Ryu Karate.
- Awarded the American Association of Physics Teachers Photo Contest Prize
- Named to the Dean's List of Students, concurrently from freshmen year to graduation at Michigan Technological University.