

MOSES IKE

NSF Cyber-Corp SFS Scholar

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AVAILABILITY Job Type: Summer Internship, 2015 Begin: May 2015
Job Type: Full Time Begin: Dec 2015

DESIRED LOCATION Anywhere in the United States

OBJECTIVE Seeking opportunities to learn and apply computing and security skills in computer systems and networks. Strong background in network engineering, network and system security, application development and administration.

EDUCATION **University of Texas at Dallas**
Degree: **Master of Science**
Expected Graduation: Dec. 2015
Major: Computer Science – Cybersecurity GPA: 3.7/4.0

RELEVANT COURSEWORK

Network Security, Application & Data Security, Advanced Computer Networks, Artificial Intelligence, Algorithms Design and Analysis, Software testing and verification, Information Security, Developing and Securing the Cloud, etc

University of Texas at Dallas

Degree: **Bachelor of Science**
Graduated: Aug. 2014
Major: Computer Science GPA: 3.9/4.0
Honors: Summa Cum Laude

RELEVANT COURSEWORK

Operating Systems, Computer Architecture, Data Structures and Algorithmic Analysis, Computer Networks & Laboratory, Programming Languages, Linux Programming, , C++ in UNIX environment, etc

CERTIFICATIONS/JOB TRAINING

Cisco Certified Network Associate CCNA
Cisco Certified Network Professional CCNP
PENDING CERTIFICATIONS
VmWARE Certification Professional VCP
CISSP

TECHNICAL EXPERIENCE

- Designed and implemented a cloud-based secured third-party document publication using WS-security, SOAP, One-Time-Pad, etc. Hosted on http://mosesike.org/external/secure_cloud and Amazon EC2 Cloud
- Designed and implemented a Stateless Role Based Access Control Application in a Multi-layer Secured Database. Hosted on <http://mosesike.org/external/rbac>
- Researched, designed and implemented a Privacy Preserving E-commerce protocol and application, to be published and proposed as a cryptographic solution to provide privacy and security to our current e-commerce industry. See http://mosesike.org/external/dev/ecom_privacy/ppe_slide.pdf

- Built and currently host an IT Organization website based on research and education in IT-related fields. <http://mosesike.org>. Hosted on a local LAMP (Linux, Apache, MySQL, PHP) server which I integrated from ground up
- Designed and maintain a network test-lab topology (physical & virtualized), conducting network operations/protocol tests, Malware Sandboxing/Analysis, Layer 2, 3,4 & wireless security, and performance/convergence testing
- Designed and built a Micro-Controller based Shadow Counter using the Atmel 8051, LDR sensor, transistors, PCB software tools, seven-segment display, etc.

ACADEMIC DESIGN & CODING PROJECTS COMPLETED

- Virtual machine emulation, featuring operating systems mechanisms, like memory management, IPC, interrupts, etc. Language: C++
- A multi-client/server system using TCP sockets, multi-threaded with mutual exclusion and manual synchronization, ensuring integrity of shared resource, authentication, session termination, and resource recycling. Language: C++
- OSI layers' networking operations among arbitrary n distributed nodes, computing Spanning-tree, and performing dynamic routing. Language: C++
- Artificial Intelligence 3 X 3 sliding puzzle solver, implemented with Recursive Best First Search algorithm, and a memory conservation scheme. Language: Java
- Artificial Intelligence Chess Playing Agent, implemented with Min-Max Alpha-Beta Adversarial Search algorithm, and optimized heuristics: Language Java
- Senior Design Team Project: Built a Multi-rotor Aircraft Remote Control Android Application for an existing Ground Station code. See http://utdallas.edu/~mji120030/papers/senior_design2014.pdf

TECHNICAL SKILLS

- **Networking** – Proficient in TCP/IP/OSI layer operations, static and dynamic routing, IPv4 & IPv6 addressing, NAT, Layer 2 & 3 switching, service-oriented network design, network services administration, device IOS configuration management, network topology design, fault troubleshooting, and monitoring
- **Hardware** – Familiar with the Intel x86 family architecture and assembly operations. Familiar with the installation and configuration of network devices like Cisco ISR routers, Cisco Catalyst Switches, multi-layer switches, UNIX machines, IDS and IPS, virtualized deployments, etc.
- **Security** – Familiar with several security tools for networks and web apps penetration testing. Skilled at using cryptography to provide confidentiality, integrity, and authenticity. Familiar with secured protocols operations such as SSL/TLS, IPSec, VPN, etc. Knowledge in wireless security and preventing attacks. Familiar with reversing binary/assembly code and code debugging analysis
- **Programming Languages** – C/C++, Python, PHP, SQL, Shell/BASH Programming, Java, x86 assembly, JavaScript, HTML, CSS
- **Web Technologies:** Integrating Apache, PHP, and MySQL database in a Linux Platform (LAMP), cookie management, web security, JavaScript, CSS3, HTML5
- **Platforms** – LINUX, WINDOWS (XP, 7,8), MAC OSX, Cisco IOS

- **Tools /Software**
Virtualization: VMware, Virtual Box, QEMU, GNS3, Android AVD
IDEs: Eclipse IDE, Notepad++, MS Visual Studio, VIM, Text-Wrangler
Security: KALI-Linux tools, GDB, Wireshark, Nessus, Nmap, BRO, etc
Network Services: DNS, DHCP, TFTP, FTP, SysLOG, AAA/TACACS+, etc
- **Technical Writing** - Proficient in developing network and security policies, and reviewing software, service and support documentations
- **People Skills** – Great team player, interactive skills, and customer service

ACADEMIC ENGAGEMENTS & MERITS

- Certificate of Academic Excellence, UT-Dallas Computer Science Dept.
- Computer Security Group
- National Society of Black Engineers
- Phi Theta Kappa Honor Society
- Dean's List (Throughout Undergraduate years)

JOB EXPERIENCE

COCA-COLA COMPANY

Location: Dallas, TX. United States. **Tel:** 214-388-6800
Title: Driver Sales Merchandizer **Time period:** 09/2009 – 04/2012.
Hours per week: 40 Okay to contact employer: YES
Duties:
Product distribution, sales and delivery to customer accounts, inventory managements and customer services
Operation of sales computer for accounting and reporting of daily business
Safety of equipment and work computing devices

ECHO Computers Plus

Location: Dallas, TX. United States **Tel:** 214-783-6996
Title: Computer technician **Time period:** 10/2009 – 11/2010
Hours per week: 20 Okay to contact employer: YES
Duties:
Custom building and assembly of PC desktop computers
Operating systems upgrading, and driver update installations
Hardware troubleshooting, hardware upgrade, repairs, and testing
Home wireless network installations, and wired networking testing
Network troubleshooting, and Linux machine networking projects

PROFESSIONAL REFERENCES

Dr. Kamil Sarac
Director of Education Programs
Cyber Security Research & Education Institute. University of Texas at Dallas
Email: ksarac@utdallas.edu Tel: 972-883-2337

Kevin Taylor
Vice President, Technology Operations
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