Deyu Han

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Education

Carnegie Mellon University, Pittsburgh PA / Mountain View, CA

June 2018

Master of Science, Information Technology - Information Security

Relevant Courses: Mobile/Cloud/Browser/Web Security, Forensics, Computer Systems, Networking, Info Assurance **Knox College**, Galesburg IL June 2016

Bachelor of Arts, Honors in Computer Science Minor: Mathematics

Skills

Programming Experience: Proficient in Java, C++, Python and Bash Scripting. Familiar with C, Ruby on Rails, Scala, JavaScript, Haskell, Django, MySQL, HTML, OpenGL.

Language: Proficient in English and Mandarin, elementary level in German.

Environment Experience: Docker, Git, AWS, Nginx, VM, OS (U/Linux, OS X, Windows), Metasploit, Nessus, Splunk.

Research Experience

Mediated Fog Computing Model for Proximal Domain Security in IoT

Summer 2017

Improved data transmission efficiency for facial recognition component

Honors: Improving Valiant routing algorithms for Slim Fly HPC Network Topology

2015&2016

Designed and implemented a Java HPC simulator for Slim Fly topology

Improved around 11% performance for worst-case traffic in Slim Fly HPC topology

Task Mapping for Emerging Network Topologies (NSF: CNS-1423413)

2015&2016

• Main developer and advisor to implement a Java HPC simulator for Dragonfly

• Leader of 3 teammates, improved 2% of the performance of HPC simulator by using new algorithms

Relevant Work Experience

Cisco, Security Business Group

Fall 2017

Practicum with Cisco on Web app attacks detection in real-time

- Performed 4 (SQLi, XSS, Format String Overflow, Local File Inclusion) of OWASP top 10 attacks on cloud services
- Analyzed existing two Web Application Firewall and two Run-time Application Self Protection solutions

Knox College Theater Department

2015-2016

Web Developer

Maintained and did weekly events update. Available at: departments.knox.edu/theatre/index.html

Academic Projects

•	Performed enterprise LAN-environment attacks using Metasploit and Powershell Empire.	Fall 2016
•	Implemented an LRU-based memory cache simulator in C with optimization	Fall 2016
•	Implemented memory allocation algorithm "malloc" in C using BST and explicit list	Fall 2016

Conference Presentations

46th International Conference on Parallel Processing (ICPP)

August 2017

• Presented Improving Valiant Routing Algorithms for Slim Fly Networks

Consortium for Computing Sciences in Colleges (CCSC) conferences

2015

New developed task mapping and global link arrangement with a simulator for Dragonfly

Scala and Charm++ with 2 sample programs at CCSC-Midwest

45th ACM National Special Interest Group on Computer Science Education (SIGCSE)

March 2014

Presented a poster & abstract: Parallel Programming Paradigms Illustrated for SIGCSE2014

Honors & Awards

•	CCSC Conferences: 1st of 50 in poster session and 5th of 50 in programming contest	2014-2015
•	Top 3 in liberal arts college, leading at Regional level in the ACM/ICPC Programming Contest	2014-2015
•	Nominated as associate member of Sigma Xi, a scientific research honor society	2014-2016