Deyu Han

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Education

Carnegie Mellon University, Pittsburgh, PA / Mountain View, CA August 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, Bash Scripting, Python. Familiar with C/C++, Ruby on Rails, Scala, JavaScript, Haskell, Maven, MySQL, HTML, OpenGL.
Language: Proficient in English and Mandarin, elementary level in German.
Environment Experience: Docker, K8s, Git, AWS, Nginx, OS (U/Linux, OS X, Windows), Metasploit, Nessus, Splunk.

Work Experience

Proofpoint, Security Product October 2018
Software Engineer II

- Designed and implemented corporate-level Java service test architecture and infrastructure
- Received Outstanding Technical Contribution Award
- Responsible for CI/CD pipeline integration with Kubernetes/Docker and Jenkins

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

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

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