Shu, Anhei (Ian)



About

I am a PhD student in Computer Science Department at Rice University, and a member of the Computer Security Lab. This is my second year in the doctoral program. My advisor is Professor Dan Wallach.

Office: Duncan Hall 1083
Office Hours: 3pm ~ 4pm on Wednesday.
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Research Interests

- Network and Web Security
- Android Security
- Parallel Computing
- Web Information Retrieval
- Natural Language Processing

Projects

Machine Learning

Digital Forensics

Computer Systems Security

Quiltwork Project Home

My Quiltwork Home

- References
  - Lobo Java Web Browser
  - Rivest's S-expression

Distributed Systems

Distributed Queues Design and Implementation

Computer Systems Architecture

Implementation of Tomasulo processor

Computer Networks

Implementation of Intra-domain Routing
Implementation of Inter-domain Routing

Small tools I developed

- MySql huge dump file splitter

My Technical Memo

> ⚠ *These notes are mainly for my personal use purposes. Any reliance you place on such information is strictly at your own risk.*

- Mac
  - CJK on Wine
  - XeTex for Chinese on iMac
  - VirtualBox
    - VirtualBox on iMac
    - Boot from bootable USB drive in VirtualBox
- Eclipse Tips
- Ubuntu 9.10 setting logs and tips
  - VMWare Server 2.0

    - Multiple Boot Systems Time Conflicts
- Ubuntu tips
    - Run a second chromium browser?
    - "ALERT: /dev/disk/by-uuid/... does not exist" after upgrade from Lucid(10.04) to Maverick(10.10)
    - Given a file, find out the package it belongs to
    - Rename multiple files
    - Magic SysRq keys Alt-SysRq-RSEIUB
    - Use at as an alarm clock
- Debian
    - How to reset root password in Debian
    - Debian on Intel-based iMac 27" (64 bit)
        - Graphics and sound
        - Flash Player
        - Network unreachable in java only
    - How to move minimize, maximize, close button to left hand side or right hand side of title bar on Ubuntu or Debian
- MySQL
    - MySQL
    - Make LOAD DATA INFILE run even faster for a MyISAM table
    - MySQL5.1 on Ubuntu 10.10 installation log
- Others
    - Firefox extension compatibility

Teaching Assistantships

- COMP/ELEC 421 Operating Systems and Concurrent Programming
- COMP 482 / ELEC 420 Design and Analysis of Algorithms, Class OWL-Space(login required)
- COMP 529 Computer Network Protocols and Systems, Class OWL-Space(login required)
- COMP 430 Introduction to Database Systems

Courses I have taken or am taking at Rice Univ.

Spring 12

- COMP 540 STATISTICAL MACHINE LEARNING

Fall 11

- STAT 640 DATA MINING AND STATISTICAL LEARNING

Spring 11

- COMP 481 AUTOMATA/FORMAL LAN/COMPUTABLE
- COMP 600 GRADUATE SEMINAR
- COMP 800 GRADUATE RESEARCH

Fall 10

- COMP 425 COMPUTER SYSTEMS ARCHITECTURE
- COMP 571 BIOINFORMATICS: SEQUENCE
- COMP 590 COMPUTER SCIENCE PROJECTS
- COMP 600 GRADUATE SEMINAR
- COMP 800 GRADUATE RESEARCH
- STAT 280 ELEMENTARY APPLIED STATISTICS

Spring 10

- COMP 429 INTRO TO COMPUTER NETWORKS
- COMP 430 INTRO TO DATABASE SYSTEMS
- COMP 520 DISTRIBUTED SYSTEMS
- COMP 620 GRAD SEM-DISTRIBUTED COMPUTING
- COMP 600 GRADUATE SEMINAR
- COMP 800 GRADUATE RESEARCH

Fall 09

- COMP 527 Computer Systems Security
- COMP 482 Design and Analysis of Algorithms and yahoo group for COMP 482
- COMP 600 GRADUATE SEMINAR
- COMP 800 GRADUATE RESEARCH

Publications

- Peiyou Song, Anhei Shu, David Phipps, Dan Wallach, Mohit Tiwari, Jedidiah Crandall, George Luger. Language Without Words: A Pointillist Model for Natural Language Processing. SCIS-ISIS 2012, Kobe, Japan, September 2012
- Peiyou Song, Anhei Shu, Anyu Zhou, Dan Wallach, Jedidiah R. Crandall. A Pointillist Approach of Natural Language Processing. 2012 IEEE International Conference on Natural Language Processing and Knowledge Engineering (IEEE NLP-KE'12), Hefei, China. August 2012. ***Best Paper Award***.
- Michael Dietz, Shashi Shekhar, Yuliy Pisetsky, Anhei Shu, and Dan S. Wallach. Quire: Lightweight Provenance for Smartphone Operating Systems, 21st USENIX Security Symposium (San Francisco, CA), August 2011.
- Anhei Shu, Kumiko Tanaka. Omniget: A Browselet in Browser Interface to Provide Third Party Information While Browsing. In the 14th Conference on Natural Language Processing in Japan, 2008. Japan
- Haruhara Masato, Anhei Shu. OMJ: OpenMP Compiler with Software DSM JIAJIA for PC Cluster. The Conference of the institute of Electronics, Information and Communication Engineers, 2004, No. D-6-7, (2004). Japan
- Anyu Zhou, Hongli Zhang, Mingzeng Hu, Anhei Shu. Light Vertex Matching Scheme in k-way Partitioning for Network Graphs. Journal of Jiamusi University, 2006, 24 (2): 177-181. China

Education

- Ph.D. Student, Rice University, Houston, TX Aug, 2009 ~ Present
  - Concentration: Computer systems and network security
  - Supervisor: Dan Wallach (Computer security lab)
  - Major GPA: 3.98/4.0
  - Projects: Android system security

- Ph.D. Student, University of Tokyo, Tokyo, Japan Apr, 2007 ~ July, 2009
  - Concentration: Natural Language Processing
  - Major GPA: 4.0/4.0
  - Projects:
    - Omniget - A generalized interface framework for providing third-party information while browsing web documents
    - Pinyomi-lite - A light weight dictionary look-up system for learning Chinese and Japanese using logograph transliteration.

- Master of Science Degree in Computer Science, University of Elector-Communications, Tokyo, Japan, 2003
  - Concentration: Parallel and distributed processing
  - Major GPA: 3.78/4.0
  - Thesis: OOJ - Omni OpenMP Compiler on JIAJIA

- Bachelor of Science Degree in Information and Network Science, Chiba Institute of Technology, Chiba, Japan 2001
  - Concentration: Computer network system
  - Major GPA: 3.7/4.0
  - Thesis: Keyword Spotting for Speech Verification by Continuous Dynamic Programming Algorithm

Working Experience and Internship

- Web System Developing Team Leader, KSK Inc., Tokyo May 2005 ~ Mar 2008
- System Administrator, Tokyo University of Foreign Studies, Tokyo Jan 2004 ~ May 2005
- System Engineer in Technical Support Systems Engineering Div. Sun Microsystems, Inc. Tokyo Apr 2003 ~ Jan 2004
- Hardware Engineer, Arc Design, Inc., Tokyo 2002 ~ 2003
- Web Application Development Programmer, Digital Knowledge, Inc., Tokyo 2001 ~ 2002
- System Engineer, Transware, Inc., Tokyo 1999 ~ 2001
- Program development team leader, Synthesize, Inc., Tokyo 1998 ~ 1999

Licenses/Certifications

- JNCIA-EX (Juniper Networks Certified Internet Associate), Juniper Networks, Inc. 2008
- CCNA (Cisco Certified Network Associate) 2005
- SCSA (Sun Certified System Administrator for Solaris 9) 2004
- Certified Class II Information Technology Engineer, JIPDEC 1998

Selected Awards

- Scholarship of Funai Information Science Foundation, Japan 2001-2003
- Full scholarship of Chiba Institute of Technology, Japan 1997-2001
- Olympic Candidate of Information Science of China 1996
- Awards on information science(twice), physics(twice), mathematics(once), chemistry(once) international contests.(China) 1993 – 1996

Links

- Useful Links

Personal

- Xun
- Cooking
- Snowboarding

- My family