79 Raintree Island Apt.11 Tonawanda, NY 14150 (716)335-8052 Schen23@buffalo.edu

Education

, University at Buffalo - SUNY

Buffalo, NY

Ph.D., Computer Science (GPA 3.8)

Sep. 2012 - Expected in Fall 2016

- Research Assistance in Ubiquitous Security and Privacy Research Laboratory (UbiSeC Lab)

University at Buffalo - SUNY

Buffalo, NY

M.S., Electrical Engineering (GPA 3.8)

Sep. 2010 - May. 2012

- Research Assistance in Wireless Networks and Embedded Systems Lab (WINES Lab)

, China Agricultural University

Beijing, China

B.S., Measuring & Control Technology and Instrumentations

2006-2010

- Graduated with Honors, Top 100 Excellent Graduate Theses award winner

Research Projects

AcousAuth Buffalo, NY

Ubiquitous Security and Privacy Research Laboratory (UbiSeC Lab)

Jun. 2013

 A smartphone empowered personal authentication system exploiting keyless acoustic communication. In Mobicom'13 App Competition Finalists (top 10)

Cognitive Radio Framework

Buffalo, NY

Wireless Networks and Embedded Systems Laboratory

2011 - Expected in May. 2012

- Implemented TCP/IP protocol into GNU Radio testbed USRP2
- GNU Radio co-operative setup
- Establish Bridge and framework abstraction for the cognitive radio framework

Selected Pubcations

- Huyuan Li, Haojin Zhu, Zhaoyu Gao, Si Chen, Le Yu, Shangqian Hu, Kui Ren, "All your location are belong to us: Breaking mobile social networks for automated user location tracking," in Proceedings of the 15th ACM international symposium on Mobile ad hoc networking and computing (Mobihoc'2014)
- ➡ Si Chen, Muyuan Li, Kui Ren ,"The power of indoor crowd: Indoor 3D maps from the crowd," in Computer Communications Workshops (INFOCOM WKSHPS), 2014
- ➡ E Koski, S Chen, S Pudlewski, T Melodia, "Network simulation for advanced HF communications engineering," in The
 12th International Conference on Ionospheric Radio Systems and Techniques (IRST2012)

Work Experience

Sina China Beijing, China

Application Dev Engineer (Internship)

Apr. 2010 - July. 2010

- Used Python (Matplotlib), Javascript (jQuery) and PHP with MySQL to build an UNIX cluster administration system
- Designed and implemented an algorithem to calculate daily hottest words from Weibo (Chinese twitter) search log in Python
- Created an usage frequency indicator to show Weibo's current usage frequency in different areas using IP address geolocation database and Python, PHP with MySQL, Javascript

ASSE/WH China Beijing, China

Website Developer and Website Administrator (Part-time job)

- Re-constructed company's website using Mambo CMS System
- Built an online registration system using PHP and MySQL

School Projects

Face-feature Recognition System

Multimedia Systems , CSE 534

Fall 2010

Oct. 2007- Feb. 2008

- Designed and implemented a digital video processing system for face-feature recognition
- Implemented Scale-invariant feature transform (SIFT) algorithm and image processing functions in C with OpenCV and VLFeat library

Analog Circuit Design and MOSFET Device Design

Analog Circuit, EE 591

Fall 2010

- Designed a high-frequency cascade amplifier, simulated it using HSPICE, and did layout using Cadence Virtuoso Layout software

, Novel Dual-band Bandpass Filter with Microstrip Meander-loop Resonator

RF&Microwave Circuits, EE569

Fall 2010

- Worked on the RF&Microwave Circuits final project in a team of three
- Designed a Novel Dual-band bandpass filter with microstrip meander-loop resonator and stimulate it in HFSS

, Other Projects

China Agricultural University

2006-2010

- Used "Storm!" robot with sensor board and programmed in C language to create a robot which can shutdown a PC automatically
- Built a Simple Image Manipulation program using VC++ with MFC framework and OpenCV
- Built a Sensitive Listener, on $2" \times 2.5"$ piece of breadboard
- Used PCI6011 Data-acquisition Board and programmed in VB to create a Computer Weight Measurment System

Extracurriculum Works

- + Used SigOps uBoot System (UIUC), C, Assembly to create my own operating system 'Quake'
- ♣ Used Python, jQuery, PHP, MySQL to build an on-line GPA Calculate System
- → Used Python, C++, Sed, PHP, MySQL and Javascript to design an Automatic Tests Score SMS Notifier
- → Used CC2430 wireless single chip microcomputer and TinyOS embedded system, PHP, MySQL, C, Shell Script to create an Amphibian & Reptiles Aquarium Monitoring System
- 🕂 Used Google Map API, Javascript, HTML to design an on-line alumni catalog
- + Co-founder and technique advisor of the Future Engineers Association (FEA)

Honors and Awards

✓ Top 100 Excellent Graduate Theses in China Agricultural University	2010
✓ Awarded 'Excellent Graduate in China Agricultural University'	2010
✔ Awarded in National Innovation Experiment Program for Undergraduates (\$3200)	2009-2010
✓ Undergraduate Research Program (\$500)	2007-2008
✔ Third Prize of International Interdisciplinary Contest in Modeling	2009
✓ Third Prize of Scholarship for Excellent Academic Performance (\$100)	2007,2008,2009
✓ Awarded twice 'The best debater' title in debate competitions (College of Engineering)	2006,2007

Skills

 $\textbf{Programming Languages:} \ \ \textbf{Python, C, $T_E\!X$, Javascript, Shell, SQL, PHP, HTML, Perl, Java, Assembly, haskell \\$

Operating Systems: Linux (Archlinux), Mac OS X, Windows, FreeBSD

Applications: MATLAB, Vim, Cadence Virtuoso, LATEX, Photoshop, MS Office, Dreamweaver, Sed, gdb

Framework: GNU Radio (Python), Django (Python), Web.py (Python), jQuery(Javascript), SAE

Miscellaneous: software configuration management, excellent troubleshooting and debugging skills, exceptional problem solving skills

Interests

Academic: Wireless Sensor and Actor networks, Cognitive Radio/Dynamic Spectrum Access Networks, Optimization of wireless communication networks

Sports: Jogging and swimming

Computers: Enjoy using and learning Linux systems, Building electronics projects, and writing small tool-kits using Python

Membership: Student member of Institution of Mechanical Engineers (IMechE) in 2009-2010

Other: Reading novels, Raising pets