

Suvda Myagmar

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SUMMARY

- 2 year experience as software engineer at Yahoo! Search, BOSS project
- PhD in Computer Science from US Top 5 engineering school
- Internship experience at top IT companies: IBM, HP, Motorola
- Combined 6 years of programming experience in C/C++, Java, Perl, PHP, MySQL
- Combined 6 years of research experience in wireless communications, security, information retrieval. Authored over 10 refereed publications.
- Strong problem-solving, technical writing, and interpersonal skills

EDUCATION

- PhD in Computer Science, University of Illinois at Urbana-Champaign, Feb 2008
- MS in Computer Science, University of Illinois at Urbana-Champaign, Aug 2005
- BS in Information Systems/Mathematics, Concord University, Athens, WV, May 2001

WORK EXPERIENCE

Microsoft

Software Engineer, Online Services Division
Social Search project.

Mountain View, CA
Apr 2010 – present

Yahoo!

Software Engineer, Yahoo Search Technology Group

BOSS (Build your Own Search Service) project. BOSS is Yahoo's open search, self-service platform that allows developers to build and launch a search product utilizing Yahoo's search index. It provides XML results, query spelling correction, and permission to reorder results. I worked on BOSS Custom platform that provides structured data search. It provides real-time indexing, custom relevancy tuning, and rich search navigation/filtering options.

Sunnyvale, CA
Apr 2008 – Apr 2010

HP Labs

Intern, Systems Security Group

Autonomic Computing Security project. Analyzed security vulnerabilities of, and developed mitigation recommendations for Adaptive Infrastructure, HP's vision of autonomic computing. Performed penetration testing, source code analysis, and threat modeling of Select Identity, HP's identity management system.

Princeton, NJ
May 2006 – Aug 2006

IBM Almaden Research Center

Intern, Services Group

Social Computing project. Developed Relescope, a tool for managing and forming productive relationships in academic communities. Used data mining techniques to predict future collaborations and discover people with common colleagues and research interests.

► IBM invited me back to deploy Relescope at ACM CSCW'04 conference to enhance communication among participants, and conduct user study.

San Jose, CA
May 2004 – Aug 2004

Motorola

Intern, Center for Automotive Research

Inter-Vehicular Wireless Communication project. Researched routing algorithms, connectivity conditions, and applications of ad-hoc wireless communication between moving cars. Developed a prototype application (in Java) for voice messaging and roadside alerts. Conducted field experiments with moving cars and off-the-shelf wireless devices.

► Based on this work, Motorola sponsored my studies for the next year.

Schaumburg, IL
May 2003 – Aug 2003

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, Perl, PHP, Shell, MySQL, XML/HTML
- **Operating Systems and Tools:** Linux, Windows. MySQL DB management, design, replication.

AWARDS

- **Student Travel Grant**, CS Department, UIUC, 2007
- **OSDI Student Grant**, USENIX, 2004
- **Bruce Covey Mathematics Award**, Concord University, May 2001
- **Valedictorian of the Graduating Class**, Concord University, May 2001

RESEARCH

Security of Software-Defined Radios Aug 2005 – Dec 2007
Investigated security issues of Software-Defined Radios, reconfigurable radio devices that support integration and co-existence of multiple radio access technologies on general-purpose hardware. Proposed a policy-driven configuration framework for secure and autonomic component composition, validation, and remote attestation of radio configuration. Studied the application of such radio devices in electric power grids as part of TCIP project, funded by NSF.

Threat Modeling in Software Engineering Aug 2005 – May 2006
Researched effective and systematic techniques for formulating a security threat model as part of a software development cycle. Proposed threat modeling approaches for networked and data-centric systems, and developed case studies of real systems.

Bug Detection in Large-Scale Source Code Aug 2003 – May 2004
Co-developed a tool, CP-Miner, which uses data-mining techniques to efficiently identify copy-pasted code segments and bugs associated with replicated code in large software suites. Our technique does not require source annotation, and is tolerant to intentional modifications by a programmer. CP-Miner analyzed source code of Linux 2.6.6 with 3 million lines of code under 20 minutes, identified 190,000 replicated segments, and detected 49 previously unreported bugs.

3G Mobile Communications Security Aug 2002 – May 2003
Implemented security mechanisms of UMTS telecom system in Opnet simulation tool. Analyzed the impact of deploying authentication, confidentiality, and integrity mechanisms on network performance metrics such as packet delay, call setup, and network utilization.

RELEVANT ACTIVITIES

- **Web Development, Administration:** Developed a complex, multimedia website with news bulletin, forums, classifieds, chat, and photos/music/videos (HamagMongol.net). Received hands-on experience in all aspects of an online business: web server management, database/web design, user accounts management, new component integration, development of banner ad system and site promotion.

OTHER QUALIFICATIONS

- **Language Skills:** Fluent in English, Mongolian. Strong understanding of Russian.