

Suvda Myagmar

Palo Alto, CA 94301

email: suvdmaa@yahoo.com ◇ phone: ask me ◇ website: <http://www.suvda.com>

SUMMARY

- Over 3 years of work experience at Yahoo! Search and Microsoft Bing
- PhD in Computer Science from US Top 5 engineering school
- Internship experience at high tech companies: IBM, HP, Motorola
- Combined 5 years of programming experience in C/C++/C#, Java, Perl, PHP, MySQL
- Combined 6 years of research experience in wireless communications, security, information retrieval. Authored over 10 refereed publications.
- Strong communication, technical writing, and leadership skills

EDUCATION

- Program in Innovation and Entrepreneurship, Graduate School of Business, Stanford, 2011
- PhD in Computer Science, University of Illinois at Urbana-Champaign, 2008
- MS in Computer Science, University of Illinois at Urbana-Champaign
- BS in Information Systems/Mathematics, Concord University, Athens, WV

WORK EXPERIENCE

Microsoft

Mountain View, CA

Software Engineer/Analyst, Bing Search

Apr 2010 – present

Responsible for measuring and analysing Whole Page Relevance of web search. Develop new relevance metrics for algo and feature results. Build tools for scraping, parsing, and analysing search data. Design and manage internal and external (crowdsourcing) editorial judgment studies.

Yahoo!

Sunnyvale, CA

Software Engineer, Yahoo Search

Apr 2008 – Apr 2010

BOSS (Build your Own Search Service) project. Developed the backend components of BOSS, Yahoo's open search solution. It's a self-service platform that allows developers to build custom search products utilizing Yahoo's search index. I worked on structured (vertical) data search component that supports real-time indexing, custom relevance tuning, and rich search navigation/filtering options. Managed external customer relations.

HP Labs

Princeton, NJ

Intern, Systems Security Group

May 2006 – Aug 2006

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.

IBM Almaden Research Center

San Jose, CA

Intern, Services Group

May 2004 – Aug 2004

Social Computing project. Developed Relescope, a tool for detecting and recommending connections in academic communities. Used data mining techniques to predict future collaborations and discover people with common colleagues and research interests. Deployed Relescope at ACM CSCW'04 conference: generated personalized programs for attendees to augment the event experience.

Motorola

Schaumburg, IL

Intern, Center for Automotive Research

May 2003 – Aug 2003

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

TECHNICAL SKILLS

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

AWARDS

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

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. Studied the application of such radio devices in electric power infrastructure.

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 rooms, and photo/video uploads (HamagMongol.net). Hands-on experience in all aspects of running an online business: web server management, database/website design, user accounts management, new component integration, development of banner ad system, and site promotion.

OTHER QUALIFICATIONS

- **Language Skills:** Fluent in English, Mongolian. Good understanding of Russian.
- Active member of **Toastmasters International**, an educational organization that helps members improve their public speaking and leadership skills.