

Jaffar Khoshgozaran

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Education

Ph.D. Candidate , Computer Science Department, University of Southern California	GPA: 3.91 2005-present
M.Sc. in Computer Science , The George Washington University	GPA: 4.0 2003-2005
B.Sc. in Computer Engineering , Sharif University of Technology, Iran Specialization in Software.	GPA 3.0 1998-2003

Research Interests

Geospatial Information Management, Security and Privacy in Mobile Environments, Social Computing, Ubiquitous Location Based Services, Spatio-Temporal Databases.

Experience

- **Program Manager Intern, Microsoft**, Redmond WA **Summer 2009**
Managing the development of new features for the Virtual Earth (Bing Maps) product.
- **Software Developer Intern, Yahoo!**, Sunnyvale CA **Summer 2007**
Developed a query interface for user navigation behavior for Yahoo!'s strategic data solutions division as part of Yahoo!'s behavioral targeting team. A patent application on file for related technologies.
- **Research Assistant**, University of Southern California, Los Angeles **Fall 2005-present**
Contributing to several research proposals funded by Microsoft, NSF, etc for the **GEODEC** (geospatial decision-making) project. Design and development of several location-based services interacting with mobile clients for geospatial decision-making.
- **Teaching Assistant**, University of Southern California, Los Angeles **Fall 2005-Spring 2006**
Mentoring students projects/designing exam questions for the Programming Systems Design course.
- **Research Assistant**, The George Washington University, Washington, DC **Fall 2004-Spring 2005**
Contributing research towards establishing a framework for Statistical Cryptanalysis
- **Lab Instructor**, The George Washington University, Washington, DC **Fall 2004-Spring 2005**
"Database Management Systems", teaching Oracle, MYSQL, JDBC, SQLPLUS, ODBC, XML.

Key Projects

- **Bing Maps Apps**: Program manager for the integration of a new application layer to Bing Maps (Virtual Earth)
- **Cookie Chaser and Footprint 2.0**: An end-to-end framework for behavioral targeting project as part of Yahoo!'s Strategic Data Solutions division
- **GeoDec on Google Earth**: The first moving object tracking and querying application using Google Earth **featured on MSNBC and Google Earth's blog**: <http://www.msnbc.msn.com/id/12482125/> & http://www.earthblog.com/blog/archives/2006/07/bus_live_tracki.html .
- **Context-aware Computing**: An activity classification application on Android G1 phones using accelerometer, GPS, camera and other sensor data to predict user activities (ongoing)
- **Movie Search on Google Maps**: An Ajax application capable of searching and displaying movie theatres and titles on Google Maps
- **A Spatiotemporal Querying and Visualization** interface for moving object trajectories

Skills

- Programming Languages & Tools: C#/C++, Java, Web technologies (Javascript, Perl, JSP, AJAX, Servlets, ASP, PHP, Socket Programming), Map Reduce Framework
- Tools: Android SDK, Google Maps/Earth API, Microsoft Virtual Earth SDK, ESRI Arc GIS, Matlab, Rational Rose, Microsoft Project, Microsoft Visio, Latex
- Environments: Windows, Linux, FreeBSD
- Relational Database design: Oracle 10g (spatial extension), Berkeley DB, SQL, JDBC, ODBC, PL/SQL, MY SQL, SQL 2000, Access, SQLJ, XML

Relative Course Work

- Web Technologies Intelligent Embedded Systems
- Advanced Database Systems Information Retrieval
- Geospatial Information Management Data Compression
- Distributed Multimedia Information Management Project Management

Awards and Honors

- **Yahoo! Ambassador for USC**, 2007-2008
- **Youth Appreciation Award**, NIPOC, 2007
- **Recipient of Internship Offers from Cisco, IBM, ESRI, etc.**
- **Outstanding Graduate Student Award**, APSIH, 2006
- **Outstanding Leadership Award**, University of Southern California, 2005
- **University Fellowship**, The George Washington University, CS Dep. 2003-04
- **Awarded by National Commission for UNESCO**, 2003
- Ranked top 1% in Iran National Universities entrance exam among 400,000 students, 1998.

Patents

- **Apparatus and methods for tracking, querying, and visualizing behavior targeting processes (Yahoo!)**
- **Spatial Encryption: Blind Evaluation of Spatial Queries Using Space Transformation to Preserve Location Privacy. (USC)**

Selected Publications

- Ali Khoshgozaran and Cyrus Shahabi, **Private Buddy Search: Enabling Private Spatial Queries in Social Networks**, Symposium on Social Intelligence and Networking, SIN 2009.
- Gabriel Ghinita, Panos Kalnis, Ali Khoshgozaran, Cyrus Shahabi, Kian-Lee Tan: **Private queries in location based services: anonymizers are not necessary**, Proceedings of the ACM SIGMOD International Conference on Management of Data, SIGMOD 2008.
- Ali (Jeff) Khoshgozaran, Cyrus Shahabi, **Blind Evaluation of Nearest Neighbor Queries Using Space Transformation to Preserve Location Privacy**, Advances in Spatial and Temporal Databases, 10th International Symposium, SSTD 2007.

Research Services

- Co-reviewer: ICDE'09, VLDB'09, TKDE, VLDB'08, SSTD'09, ICDE'08, SIGKDD'07, GSN'06, Geoinformatica, SIGDOC'06, W2GIS'08, MDM'08, etc.