Xin Huang

Contact Information

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Objective

Full-time Software Engineer

Education

UNC-Chapel Hill, USA	M.S. in Computer Science	GPA: 3.6/4.0	May 2012
Peking University, China	M.S. in Computer Science	GPA: 89/100	July 2007
Chongqing University, China	B.E. in Software Engineering	GPA: 91/100	June 2004

Technical Skills

Programming: C, C++, Java, JSP, Javascript, Python, OpenGL, Matlab, SQL, HTML/CSS, XML
Systems and Networking: TCP/IP, HTTP, MS SQL Server, Oracle 10g, Windows, Linux, Unix

Professional Experience

Environmental Finance Center — **UNC-Chapel Hill, NC**

Web Developer — Part-time Student Assistant — January 2012 – Now

- Design and develop the websites for collecting and reporting NC water system's infrastructure capital needs with JSP, HTML, Javascript, CSS, Oracle DB, JDBC.

Department of Computer Science — **UNC-Chapel Hill, NC**

Research Assistant — Network Data Analysis — July 2008 – December 2011

- Proposed a framework and designed a software to help network administrators sanitize network packet data. Utilized data mining approach (e.g., sequence alignment and clustering) to process large network traces containing several protocols (e.g., HTTP, FTP, DNS).
- Proposed a machine learning approach to classify network applications (e.g., HTTP, SMTP, P2P) within as few bytes as possible. Implemented the classifier using C++ on Linux.
- Introduced a passive identification method to determine browser implementation (IE, Firefox, Opera, Safari) given flow records of web traffic. Stored large amounts of flow records in a relational database and performed analysis using C programs on Linux.

Department of Computer Science — **Peking University, China**

Research Assistant — 3D Surface Modeling — August 2004 – June 2007

- Proposed an interactive feature modeling system on smooth (subdivision) surfaces accelerated by graphic hardware (GPU). Implemented the system using C++, MFC, OpenGL and developed shader programs using nVIDIA Cg.

Cell-Loc Wireless Location Inc. — **Chongqing, China**

Full-time Intern — January 2004 – June 2004

- Designed a Client/Server based video surveillance systems using C++, MFC framework and windows socket programming.

Selected Publications

- X. Huang, F. Monrose, M. Reiter. "Amplifying Limited Expert Input to Sanitize Large Network Traces". IEEE/IFIP Int. Conf. on Dependable Systems and Networks (DSN), June, 2011.
- T. Yen, X. Huang, F. Monrose, M. Reiter. "Browser Fingerprinting from Coarse Traffic Summaries". 6th Conf. on Detection of Intrusions and Malware and Vulnerability Analysis, 2009.
- X. Huang, S. Li, G. Wang, "Displacement Modeling: Hardware-Accelerated Interactive Feature Modeling on Subdivision Surfaces". Computer Graphics Int., The Visual Computer 2007.

Honors and Awards

Google Graduate Researchers in Academia of Diverse backgrounds (GRAD) CS Forum, Jan. 2012

Student Travel Award, IEEE/IFIP Int. Conf. on Dependable Systems and Networks, June 2011

Dean's List Recipient, Peking University, China, February 2006, February 2007

Hewlett-Packard (HP) Fellowship for Distinguished Students, March 2006

First prize in National Mathematics Modeling Contest, China, October 2003

Second prize in National Olympic Physics Contest, China, Oct. 1999