

Bin Wu

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Objective

To find a challenging full-time research/development position in the areas of P2P networking and Web protocol design.

Education

Ph.D. in Computer Science	expected 06/2006	University of Illinois at Chicago	(GPA: 3.75/4.0) Chicago,IL
Master in Computer Science	2002	University of Illinois at Chicago	Chicago,IL
Master of Engineering	1995	ZheJiang University	ZheJiang, China
Bachelor of Science	1992	ZheJiang University	ZheJiang, China

Research Interests

Distributed Systems, Peer-to-Peer Networks, Networks Protocols and Algorithms, Web-Based Medication Systems.

Publications

1. B. Wu, A. D. Kshemkalyani, "Objective-Optimal Algorithms for Long-Term Web Prefetching," IEEE Transactions on Computers, December 2005.
2. B. Wu, A.D. Kshemkalyani, "Objective-Greedy Algorithms for Long-Term Web Prefetching", 3rd IEEE Conference on Network Computing and Applications (NCA), 61-68, August 2004.
3. A.D. Kshemkalyani, B. Wu, "Nonintrusive Snapshots Using Thin Slices", The 2005 IFIP International Conference on Embedded And Ubiquitous Computing (EUC-05), Japan, 6-9 December 2005.
4. B. Wu, A.D. Kshemkalyani, "Evaluation of Analysis Models for Unguided Search in Unstructured P2P Networks", *IFIP International Symposium on Network-Centric Ubiquitous Systems (NCUS 2006)*, LNCS 4097, Springer, 163-172, 2006.
5. B. Wu, A.D. Kshemkalyani, "Analysis Models for Blind Search in Unstructured Overlays", 5th IEEE Symposium on Network Computing and Applications (NCA), 223-226, 2006.

Reviewer

- Computer Network (COMNET) Journal.
- 4th IEEE International Conference of Peer-to-Peer (P2P) Network.
- 7th International Workshop on Distributed Computing (IWDC), 2005.

Honors and Certificates

- UIC Provost's Award for Graduate Research, 2005.
- UIC University Fellowship, 1999-2000 Academic Year.

Technical Skills

- Language: ASP.NET, VB.NET, ADO.NET, ASP, C/C++, C#, Java, Visual Basic 6, DHTML, VB Script, Java Bean, JavaScript, XML/XSLT, SQL/Transact-SQL, WML
- Operating Systems: Unix, Windows 2000 Server/98/XP
- Programming Platforms: Microsoft Visual Studio, Microsoft Visual Studio.Net, Microsoft Office, J-Builder

- Programming Skills: MFC, OLEDB, ActiveX, COM/COM+, IIS 5.0/6.0 Programming (Server Extension, ISAPI Filter)
- DBMS: SQL Server 2000, Oracle 8/8i, MS Access/FoxPro

Working Experience

1. **Software Engineer** University of Illinois Medical College 01/2000-Present

As a core team member, I designed and developed the AvidCare Tele-Medicine system. This web-based system is used for physicians and medical professionals to provide medical services to registered patients. Physicians log on to the AvidCare Tele-Medicine system to monitor and advise their patients who may reside all over the world. In addition, this system organizes patients, physicians, care centers and monitoring devices with full consideration of security, efficiency, scalability and robustness. This system has been submitted to FDA examination. My contributions to this project include:

- Designed the system database using SQL Server 2000.
- Designed and implemented the Web application for AvidCare Tele-Medicine system
- Developed an Expert Diagnostic Toolkit.
- Built a real time Alarm Paging system.
- Implemented a wireless version of the Tele-Medicine system with WAP protocol and WML language.

2. **Research Assistant** Department of Mechanical Engineering at UIC 01/1998-01/2000

Modified and enhanced an academic program for combustion computation (OPPDIF by Sandia Lab) to perform micro-gravity combustion radiation computation for a NASA founded micro-gravity project.

3. **Software Developer** Zhejiang University, China 04/1995-11/1997

- Designed, implemented and maintained a real-time monitoring and control network (MCN) for Power Industrial processes. The tasks of data collection, data analysis and generation of control commands are distributed over the network which is composed of data collectors, PCs and industrial control units. Compared with centralized control systems that were widely used in industry processes, our distributed version was especially advantageous with regards to cost, reliability and maintenance. Since the time this project was completed in 1997, it has been installed and used in a large number of power plants and industrial companies in China.
- Designed a Computer Aided Instruction Tool Kit using C++, VB, Microsoft Access and Microsoft Graphic User Interface. This set of software tools are used by course instructors or professors to create a series of interactive lectures in the form of user-friendly computer programs that help students better understand course materials with various approaches.

References

Available on demand