

RESUME

Name: Xuchen Wang(BEN)

Born: 04 /06 /1984

Status: Male

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Objective:

To obtain a full time job in the IT industry.

Education:

- Aug. 2007 till now Dept. of Computer Science, University of Arizona, Master of Science;
- Dec. 2005 IDETCO training program on embedded system, FPGA/CPLD;
- Sept.2002 - June.2006 Dept. of Computer Science, Xidian University, Bachelor of Engineering;

Academic Score:

- **GPA(Master)** : 3.4/4
- **GPA(Bachelor)**: Overall 3.6/4; Major 3.6/4 ; Math: 3.9/4
- **Percentage(Bachelor)** Top 8% of 400 undergraduate students

Assistance Experience:

- Jan 2009 Teaching Assistant, University of Arizona, Eller college of management;
(Teaching: 24-Hour Knowledge Factory: International Management of Services in a Knowledge Economy)
- Aug 2008 Research Assistant, University of Arizona, Eller college of management;
(Research interest : 24 Hour Knowledge Factory , Distributed development, Knowledge Sharing)
- Jan. 2006 Research Assistant, Xidian University, MTI (Multimedia Institute);

Working Experience:

In worksoft Creative Co.Ltd (From Feb. 2007 to Aug. 2007)

- Software testing (Trend office scan 8.0 , IBM Lotus Notes I ITB);
 - 1) Internationalization and localization aspects of software. Understanding of the character sets typically used in modern software development.
 - 2) Test Automation Design and Methodology.
 - 3) Web Server, OS and SQL Database setup and administration.
 - 4) Experience outside traditional waterfall software lifecycle - Extreme Programming.
 - 5) Performance Testing, Data Interface Testing, Security Testing.
 - 6) Test Case Writing. 7) Test Automation Development. 8) Bug Logging and Reporting.
 - 9) Troubleshooting and Debugging.
 - 10) SQL-queries, basic update/insert scripts, running stored procedures.
- Programming on J2EE platform;

In college:

- May 2008 – Aug 2008 (**Intern** in Aunutra Industries)
 - (1) Familiar with Java Generics and collection. Exploring the design that leads to ease of evolution also necessarily leads to a few rough edges in the treatment of casts, exceptions, and arrays;

(2) Java network programming. Familiar with Java API that facilitates communication over the Internet, from sending packets and streams of data to employing higher-level application protocols such as HTTP and distributed computing mechanisms;

(3) Computer networking. Exploring aspects of networking that cross many technologies and layers, including security, and network management. Explores the principles of computer networking by focusing on the TCP/IP protocol suite as well as the Internet architecture and infrastructure design. Hand-on experience in implementing a virtual router that routes real network traffic;

(4) Agile programming. Gain an understanding of agile development concepts and techniques, in particular how to model effectively on an agile project. Taking an Agile Model Driven Development (AMDD) approach to requirements, analysis, and design techniques applying the diagrams of the Unified Modeling Language (UML) 2. Know how to take a Test-Driven Development (TDD) to development using Java;

- Jan 2009 OS advanced concept: energy management. . Understanding fundamental principles of operating systems with emphasis on energy management and supporting performance optimizations. i.e.:

- * Energy management in Servers, Desktops, and Portable Device and Networking Infrastructure

- * Energy optimizations of CPU, memory, disk, network interfaces and displays

- Jan 2009 Class project: parallel and distributed computing.

- * Applications, such as peer-to-peer computing, map/reduce, data parallel computing, languages and libraries for parallel computing, and model checking.

- Oct 2008 SOA analysis and design. Focusing on analysis and design of information systems with a service-oriented perspective. Understanding process analysis and modeling in SOA. Familiar with: system sourcing strategies, specification of service level agreements, software development approaches, and process-driven system integration. **Real world experience with Oracle SOA suite;**

- Aug 2008 DLX Simulator. Implementing simulators for a slightly simplified DLX pipeline architecture;

- Feb 2008 project: Implement a simplified database system on Linux (Experience in managing buffer pool and manipulating files that contain a sequence of pages. Implementing heap file management layer to provide the abstraction of random and sequential access to fixed length records. Implementing B+tree index structures to speed up associative access to records;

- Feb 2008 project: Implement Luca language compiler and interpreter on Linux(Provide a front-end that performs lexing, parsing, semantic analysis and intermediate code generation on Luca source code. Write interpreter that reads in the code produced by the front-end then executes this code. Write garbage collector for Luca using "copy collection". Extended Luca with OOP features.);

- Feb 2008 project: Applications to improve image data access(Familiar with various computer vision algorithms i.e.: camera calibration, Homo(Non Homo)geneous least square, feature detection, background subtraction, clustering (k-means, EM,RANSAC) , Fitting(Hough transform, probabilistic fitting),detecting and representing textures etc);

- Oct.2007 project: Implement simplified file system on Linux(Operating system design, implementation and modeling; deadlock and memory management models; protection mechanisms; operating systems for parallel and distributed systems);

Oct.2007 project: Surveys a list of geometric algorithms and geometric data structure. These algorithms are useful for solving problems in areas such as Visualization, Geographic Information Systems (GIS), VLSI, Robotics, Computer Graphics, Computer Vision, and many other areas;

- Oct.2007 project: (Algorithm) Study problems that are efficiently solvable, focusing on basic design techniques (divide-and-conquer, dynamic programming, and greed), advanced data structures (amortized

analysis, Fibonacci heaps, and disjoint sets), basic graph algorithms (minimum spanning trees, shortest paths, maximum flow, maximum matching), and basic string algorithms (exact string matching);

- July. 2006 Project: "Heat collect system " using ZigBee wireless network, calculate the heating fee according to the heat consumed (PIC18F4620, CC2420);

- Jan. 2006 Project: " serial port communication under uclinux embedded system " Linux serial port driver. A serial port communication program is written and transplanted under the uclinux OS and S3C4510B embedded platform;

- Nov. 2005 Project: " Linux network programming " Data transmission between client and server .Familiar with socket types, sessioned versus sessionless protocols and encryption, building custom protocols, using SSL and tunneling data;

- May. 2005 Project " Compiler Design" Identify specific instructions; Familiar with Structure of a compiler, Lexical Analyzer, LEX, Design of Lex, Top down Parsing, LL(1) parsers, Bottom up Parsing, YACC, LR parsers, Syntax Directed Translation, Types and Type Checking, Run-Time Storage Administration and Symbol Table Management, Intermediate Code and Code Generation, Data-Flow Analysis, Code Optimizations;

Computer languages and Softwares:

General Purpose Language: C , C++, Java; Script language : Python, Tcl/tk, JavaScript;

Markup language: HTML,XML; Functional language: LISP, Scheme;

Other: Ada , Smalltalk;

Software: Matlab,Eclipse, Visual Studio 6.0,DreamWeaver,Photoshop;

Database: Oracle 10g Express Edition, MS SQL Server;

OS: Ubuntu Linux, Windows 2000 server, Unix;

Honor:

- 2002 Prize for Excellent Freshmen;
- 2005-2006 Xidian University second-class scholarship;
- 2006 Honor degree of Xidian University;

Publication:

Xuchen, Wang; "Heat collect system applying Zigbee wireless technology" , Xidian University excellent research paper", Jun.2006;

NOTE:

(1) My Professor's Biography: <http://next.eller.arizona.edu/people/gupta/index.aspx>;

(2) You can also contact my graduate coordinator for further information

Email: rliva@cs.arizona.edu work phone: (520) 621-4632