

WILLIAM B. HURST

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CURRICULUM VITAE

Profile

Deeply accomplished, self motivated, and goal-oriented professional committed to pursuing a long-term career in an educational environment. Experienced in fast-paced environments demanding strong organizational, leadership, and interpersonal skills. Trustworthy, ethical, and discreet in addition to maintaining confidence and poise in interactions with individuals at all levels. Tenacious in building customer loyalty, and forging strong relationships with internal and external business entities.

Education

- 2008–2009 **Ph.D. Candidate Applied Computing**, University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204
 Exp. Graduation Dec 2009
 Topic *Performance Metrics for Analysis and Evaluation of High Performance Distributed, Networked Computing Systems*
 Advisor Dr. Srinu Ramaswamy
 Description Analysis and Evaluation of High Performance, Distributed, Networked Computing Systems
- 2007–2008 **M. S. Computer Science**, University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204
 Graduation Jun 2008
 Dissertation *Eclipse Bug Count Life-Cycle Analysis*
 Advisor Dr. Srinu Ramaswamy
 Description Eclipse Bug Count Life-Cycle Analysis
- 1972–1976 **B. A. Physics**, MacMurray College, 447 E. College Avenue, Jacksonville, IL 62650
 Graduation May 1976
 Advisor Dr. Wang

Professional Experience

- 05/2008–
Present **Graduate Assistant**, University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204, Applied Science Department, Supervisor: Dr. Srini Ramaswamy
- Bug Analysis: Software sub-component life-cycle analysis
 - Lemur Project: Text Retrieval Conference (TREC)
 - High Performance Cluster Project: motivated by the Department of Energy’s (DOE) Experimental Program to Stimulate Competitive Research (EPSCoR)
 - Taught: C/C++ introductory programming lab: designed to: assist with student understanding and facilitate Microsoft Visual Studio usage
- 06/2004–
12/2005 **Graduate Assistant**, University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204, Graduate Institute of Technology Department, Supervisor: Dr. Keith Hudson
- Analyzed, researched, and resolved student and faculty technical support problems
 - Performed System Administration functions for UALR Nursing Department
 - Performed software installations, updates, backups and restores for Nursing Department computers
 - Assisted in Administration of various UALR Linux/Unix/Windows computer laboratories
 - Assisted in troubleshooting of network and computer problems in ETAS building
 - Assisted in operating system (OS) installation and configuration of SUN computers for seismic research and monitoring
 - Assisted in cabling and termination of CAT5 network for GIT computer lab
 - Assisted in physically assembling the 64-bit computers using in creating GIT computer lab
 - Demonstrated installation of “mpich2” (message passing interface) software on newly assembled 64-bit computers and configuration of software for development of parallel computing processing cluster for the GIT department
- 09/2003–
06/2004 **Lab Coordinator**, University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204, Computer Science Department, Supervisor: Dr. Charles Ford
- Performed Network Administration functions: managing user accounts, network security, data protection (power management, backups, etc.), network performance and server management
 - Researched, recommended and implemented “mpich2” (message passing interface) software on classroom PC’s; creating a distributed, parallel processing cluster
 - Loaded and updated desktop operating systems, security patches and service packs; as required for supporting the teaching and research needs of the department
 - Surveyed faculty and students to discover system needs before and after every semester

- 09/2003–
06/2004 **Lab Coordinator** . . . *Continued* . . .
University of Arkansas at Little Rock, 2801 S. University Ave., Little Rock, AR 72204,
Computer Science Department, Supervisor: Dr. Charles Ford
- Labored to ensure the availability of computer lab computers through the use of computer backup images generated using Norton “Ghost” software; periodically restoring systems to “known clean” conditions
 - Assisted with Email management
 - Applied recommended security patches and OS upgrades
 - Resolved technical problems for office staff and students
 - Provided training on usage and procedures to users
 - Notified users of production problems or changes
 - Generated special reports as requested
- 07/2000–
06/2002 **Database Administrator** First Options of Chicago, 440 S. LaSalle St, Chicago, IL,
Supervisor: Mr. Fred Matos
- Strived to develop strong, sustainable relationships with customers through all types of problem situations
 - Assisted customers through software, hardware or database difficulties
 - Developed a specialized C program to monitor and control High Availability database fail-overs
 - Performed company software migrations through the three phases of software migration: development, quality assurance and production
 - Developed and maintained various web site reporting programs
- 07/1997–
06/2000 **Software Engineer** GTECH Corporation, 1124 N. Walnut St., Springfield, IL, Supervisor:
Mr. Danny Smith
- Assisted customers through software, hardware or database difficulties
 - Worked intensely with several state lottery companies to document, design, install and revise software systems to meet their expectations
 - Revised, updated and performed development on an electronic funds transfer (“EFT”) software program interfacing with banks
 - Revised the invoicing program to improve performance
- 01/1997–
06/1997 **Database Administrator** Cook Systems International, Inc., 6799 Great Oaks Blvd.,
Germantown, TN
- Contracted to FEDEX for E-Commerce Development (ECD) under the direction of Mr. Chris Ferguson
 - Assisted in software and database development
 - Developed specialized database administrative software
 - Performed database performance and tuning activities
 - Moved merchant data from one server to another
 - Responded to “hotline” calls

01/1978–
12/1996 **Database Administrator** Ameren CIPS, 607 E. Adams St., Springfield, IL, Supervisor:
Mr. John Hendrickson

- Performed UNIX System Administrator tasks
- Performed Database Administrator tasks
- Assisted in design, installation, implementation, alteration, and administration of specialized databases
- Developed various software interface programs, data manipulation programs, import maps, and batch file programs

Publications

W.B. Hurst, “Eclipse Bug Count Cycle Analysis”, Masters Thesis, University of Arkansas at Little Rock, Little Rock AR, 72204, June 2008.

C. Zhang, W. B. Hurst, R. B. Lenin, S. Ramaswamy, R. B. Govindan, “Predicting Bugs in Open Source Software Systems: An in-depth, Comparative Case Study on Eclipse,” Technical Report, University of Arkansas at Little Rock, Computer Science Department, Little Rock, AR, 72204, USA, 2008.

Reviews

M. Sayed, H. Bae, Y. Zheng, B. Armstrong, R. Eigenmann and F. Sabied, “Measuring High-Performance Computing with Real Applications,” IEEE Computational Science & Engineering, Volume 10, Issue 4, Pages: 60-70, Digital Object Identifier: 10.1109/MCSE.2008.98, URL=ieeexplore.ieee.org/ie15/5992/454819404548205.pdf, Jul/Aug 2008.

G. Zarinzad, A. M. Rahmani and N. Dayhim, “A Genetic Algorithm Approach for Fault- Tolerant Task Scheduling in Real-Time Multiprocessor Systems,” Technical Report, Islamic Azad University, Science and Research Branch, Tehran, Iran, 2008.

Y. Zhang and Y. Liu, “Application of Combined Forecasting Models to Intelligent Transportation Systems,” Research Center of Intelligent Transportation Systems, Shanghai Jiao Tong University, 200240 Shanghai, P. R. China, Tech. Rep. 2008.

H. Haverkort, L. Toma and Y. Zhuang, “Computing Visibility on Terrains in External Memory,” ACM J. Exp. Algor. 13, Article 1.5, DOI=10.1145/1412228.1412233, <http://doi.acm.org/10.1145/1412228.1412233>, Volume 13, Pages 23, November 2008.

R. A. Gonzalez, “Analysis and Design of a Multi-Agent System for Simulating a Crisis Response Organization,” EasyChair, Review Form ID: 190610:111613, Submission Number 18, March 2009.

Languages

C, C++, SQL, Perl, Lisp, PL/SQL, Assembly, VHDL, PL/SQL, R, html, java, various shell scripting languages (bash, csh, korn, etc.)

Post-Graduate Course List

University of Illinois at Springfield

MSY 351	Computer Foundations and Programming	1986, Spring
MSY 311	Linear Systems	1986, Summer
MSY 300	Writing Skills	1986, Fall
MSY 323	Statistical Analysis	1986, Fall

Henderson State University, Arkadelphia, AR

CSC 1113	Foundations of Computer Science	2002, Fall
HIS 1013	Civics to 1660	2002, Fall
MTH 2283	Discrete Mathematics	2002, Fall
PSC 1013	American National Government	2002, Fall

CSC 3173	Assembler Language	2003, Spring
CSC 3144	Digital Electronics	2003, Spring
CSC 2203-01	Data Structures	2003, Spring
CSC 4483-01	Programming Languages	2003, Spring

University of Arkansas at Little Rock, Little Rock, AR

CPSC 3380	Operating Systems	2003, Summer
CPSC 4383	Artificial Intelligence	2003, Summer

CPSC 3375	Database Concepts I	2003, Fall
CPSC 3482	Computer Organization I	2003, Fall

ASCI 7190	Seminar	2004, Spring
ASCI 7245	Intro Research / Applied Science	2004, Spring
ASCI 7311	Software Engineering	2004, Spring
ASCI 7331	Computer Architecture	2004, Spring

ASCI 7190	Seminar	2004, Fall
ASCI 9200	Doctoral Research / Dissertation	2004, Fall
CPSC 5376	Applied Cryptography	2004, Fall
CPSC 7341	Telecommunications and Networking	2004, Fall

ASCI 7190	Seminar	2005, Spring
ASCI 9200	Doctoral Research / Dissertation	2005, Spring
CPSC 7383	Modeling and Simulation	2005, Spring
IFSC 5325	Data Mining Concepts and Techniques	2005, Spring
ASCI 7190	Seminar	2005, Fall
ASCI 9500	Doctoral Research / Dissertation	2005, Fall
CPSC 7300	Independent Study	2005, Fall
CPSC 7312	Parallel Processing	2007, Spring
CPSC 7351	Database Design	2007, Spring
CPSC 7321	Operating Systems	2007, Fall
CPSC 7385	Analysis of Algorithms	2007, Fall
CPSC 7398	Graduate Project	2008, Spring
CPSC 7300	Independent Study	2008, Spring
ASCI 7190	Seminar	2008, Fall
ASCI 9800	Doctoral Research / Dissertation	2008, Fall
ASCI 7190	Seminar	2009, Spring
ASCI 9300	Doctoral Research / Dissertation	2009, Spring
ASCI 9500	Doctoral Research / Dissertation	2009, Spring

Candidacy Exams

Candidacy Exams Taken: 2008, Fall

Operating Systems	Passed, 2008
Telecommunications and Networking	Passed, 2008
Data Mining	Passed, 2008
Object Oriented Programming	Passed, 2008