



清華大學

RESUME/CV

Personal Information

Name WANG Ruisheng
Gender Male
Date of Birth Nov 21th, 1983
Marital Status Single
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Research Interest

Primary interest High-Speed Router Design (including Switch Architecture and Packet Scheduler)
Also interested in High-speed Network, Embedded system, Reconfigure Computing, Interconnect, Network on Chip (NOC), Data Center Networking (DCN), Optical networks, VLSI

Education

Sep 2006-current **Master student, Computer Science & Technology**
Tsinghua University, Beijing
Sep 2002-Jul 2006 **Bachelor of Engineering, Computer Science & Technology**
North China University of Technology, Beijing

Projects

Apr 2008-current **FPGA-based switching system**
Goals: To build a FPGA-based switching platform for comparing performance of the existent switching architecture and algorithms.
This is my graduation Design, I am in charge of the whole project.
Advisor: Professor Youjian Zhao

Oct 2007-Nov 2008 **CNGI backbone network monitor and performance analysis system. (Part of China Next Generation Internet (CNGI) Project)**
Goals: Design and implement a distributed monitor and performance analysis system for high-speed network
Goals of Hardware part: Design a network device to distribute traffic from a 10GPos link to eight GE interfaces according to pre-defined forwarding rules.
I am responsible for Command Line Interface (CLI) Module of the embedded software system, and late-stage hardware system debugging.

Advisor: Professor Youjian Zhao

Sep 2005-May 2006

P2p Video-On-Demand (VOD) System

Goals: To build a P2P network in which users can play media files of others, chat with others by text or video, share files with others.

Outstanding Graduation Design (Thesis) (included in NCUT Outstanding Graduation Thesis Collection 2006)

By uniting Jxta and Java Media Frame (JMF), I actually built a multi-application p2p platform, including text/video chat, file sharing, VOD.

Advisor: Associate Professor Xiaoling Fu

Sep 2004-Mar 2005

Virtual Campus System

Goals: Through modeling the objects in the real campus, such as buildings, apartments, cafeterias, library, classroom and even grass, trees, gardens, square, phone booth, we build a virtual reality online campus environment, in which guests can tour our campus by Internet Explorer.

As the leader of a three-member team, I am responsible for the general design, and 1/3 models of the buildings and other objects in the campus.

Advisor: Lecturer Li He

Technical Skills

Projects in

VHDL, C/C++, Java (Jxta, JMP), VRML

Familiar with

TCL, Visual Basic, ASP, SQL, HTML

Tools

Tornado (VxWorks), Eclipse, NS2, Latex, Quartus, Modelsim, JBuilder, Visual Studio

Activities

Spring 2008

Teaching Assistant for Digital Logic Circuit (Course No. 30240343)
Department of Computer Science & Technology, Tsinghua University

Publications

Ruisheng Wang and Youjian Zhao, Achieving 100% throughput in a two-stage multicast switch, 23rd International Conference on information Networking (ICOIN2009)

Ruisheng Wang and Youjian Zhao, HOBEP: A hardware optimized packet scheduler that provides bounded end-to-end delay. (submitted to ICC2009)

Zhenhua Liu, Xiaoping Zhang, Youjian Zhao, Ruisheng Wang, A Performance Analysis Framework for Routing Lookup in Scalable Routers, 23rd International Conference on information Networking (ICOIN2009)

Standard Test

GRE General

(Oct 27th, 2007) V: 500 (61% below), Q: 800 (94% below), AW: 3 (8% below)
(Jun 7th, 2008) V: 430 (41% below), Q: 800 (94% below), AW: 3.5 (20% below)

Honors

- Jun 2006 Outstanding Graduation Design(thesis) Award, North China University of Technology (NCUT)
- May 2006 First Prize in 2nd ACM programming contest, North China University of Technology (NCUT)
- Nov 2005 Third Prize in 1st "ZHUOLI Cup" electronic work competition, North China University of Technology (NCUT)
- Jun 2005 Third Prize in Mathematics Contest, North China University of Technology (NCUT)
- 2004-2005 Class II scholarship for outstanding student on study, Class III scholarship for outstanding student on Moral Qualities, Class I scholarship for outstanding student on practice and innovation, North China University of Technology (NCUT)
- Dec 2004 Third Prize in 15th Beijing College Mathematics Contest
- Sep 2004 Second Prize in Mathematics Contest, North China University of Technology (NCUT)
- 2004-2005 "Triple-A" outstanding student, College of Information Engineering, North China University of Technology (NCUT)
- 2003-2004 Communist Youth League Member of Excellence, North China University of Technology (NCUT)
- 2003-2004 Outstanding Students on study, College of Information Engineering, North China University of Technology (NCUT)
- 2003-2004 Class III scholarship for outstanding student on study, Class I scholarship for outstanding student in Social Practice and Extracurricular Activity, North China University of Technology (NCUT)
- Dec 2003 First Prize in Group B of 20th Beijing College Physics Contest
- 2002-2003 Class II scholarship for outstanding student on study, North China University of Technology (NCUT)
- 2002-2003 "Triple-A" outstanding student, College of Information Engineering, North China University of Technology (NCUT)
- 2002-2003 Outstanding Students on study, College of Information Engineering, North China University of Technology (NCUT)
- Jan 2002 First Prize in 18th National Physics Contest for High School Students (Provincial Level)
- 2001-2002 "Triple-A" outstanding student, Taiyuan Fifth High School
- 1999 First Prize in 1999 National Physics Contest for Junior High School Student
- 1999 Second Prize in 1999 Taiyuan Chemistry Contest for Junior High School Student
- 1999 First Prize in 1999 Taiyuan Mathematics Contest for Junior High School Student
- 1999 Second Prize in 1999 Shanxi Mathematics Contest for Junior High School Student
- 1998 Third Prize in 1998 "Hope Cup" National Mathematics Contest for Junior High School Students in Grade One

1997

Third Prize in 8th "Hope Cup" National Mathematics Contest for Junior High School Students in Grade Two

Motto

If a man begins with certainties, he shall end in doubts, but if he will be content to begin with doubts, he shall end in certainties. --*Sir Francis Bacon*