Arjun Prakash

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SUMMARY

Software Engineer with solid programming and scripting skills, extensive experience on Windows and Linux systems, quick problem solving skills and a desire to learn new technologies

Strengths include:

- Distributed Client/Server Systems
- Knowledgeable in Computer Network & Protocols
- Excellent knowledge in Comp. Architecture & Virtualization Strong Oral and Written Communication skills
- Multi-threaded and Network programming
- Protocols Proficient in using Software Tools and Simulators

EDUCATION

Master of Science Major: Computer Engineering [ECE] Minor: Computer Science [CISE]

Gainesville, FL

University of Florida

May 2010

Coursework: Advanced Data Structures, Concurrent Programming, Virtual Computers, Reconfigurable Computing, Parallel Computer Architecture, Computer Communications, Computer and Network Security, Comp. Architecture & Embedded Systems GPA: 3.86/4.0

Bachelor of Engineering Major: Electronics Engineering National Institute of Technology, Surat [Deemed University] Surat, India May 2006

First Class with Distinction

SOFTWARE SKILLS

Programming Languages: C, C++, Java, Shell scripting, Python, ASP.NET, C#, T-SQL, VHDL, x86 / 8085 Assembly

Concurrent Programming Languages & Tools: Java, pthreads, MPI(Message Passing Interface), UPC(Unified Parallel C), OpenMP

Operating Systems: Linux, Windows, UNIX (AIX) Virtual Machines: VmWare Server, XEN 3.0, Hyper-V

Databases: Sybase (ASE 12.5, Replication server), MS SQL Server, DB2 UDB

Tools/IDE: Eclipse, Visual Studio, Git version control, Wireshark, NS-2, Simics x86 simulator, Keil uVision2, Xilinx ISE 10.1

WORK EXPERIENCE

Advanced Computing & Information Systems Lab, UF, Gainesville

May 2009 – till date

Role: Student Assistant (under Dr. Renato Figueiredo)

- Developed Virtual Appliances for effortless configuration of clusters running MPI & Hadoop (using zeroconf service discovery)
- Implemented a DNS Forwarding Server for IPOP (IP over P2P) a widely used open-source P2P network virtualization software

Tropical Research and Education Centre (T.R.E.C) - Agricultural Economics Extension, UF

Apr 2009 - Jun 2009

Role: Web Developer - ASP.NET, C#, MSSQL, Google Maps API

Developed Business Finder, a web application for direct marketing of tropical agricultural products from Florida

Client: Standard Chartered Bank Atos Origin, Mumbai - India

Jun 2006 - Jul 2008

Role: Database / Systems Administrator; Tech-Lead for Sybase DBA Team (Jan 2008 – Jul 2008)

- Certified in Sybase ASE Database Administration and IT Service Management Foundation Level (ITIL)
- Maintenance and performance tuning of Sybase Data servers and replication servers on Linux, AIX and Windows platforms
- Provided recommendations for improving optimal data access strategies, better I/O balancing and Memory tuning

PROJECTS (For further details: http://plaza.ufl.edu/arjun.prakash/projects.html)

■ Implementation of a Mesh N/W of Wireless Access Points (built using Alpine Linux) for Fault Tolerance	UF, 2010
■ Implementation and Comparison of Parallel Branch and Bound Algorithm on Distributed memory and SMP Architectures	UF, 2009
■ Implementation of Multithreaded Electronic Trading Platform for conducting simultaneous open outcry auctions	UF, 2009
• Offline simulations of the cache design space using Simpoint and SimpleScalar to determine the best cache configuration	UF, 2009
■ Implementation of SSL-like protocol for creating and resuming secure connections b/w computers	UF, 2009
■ Implementation of B-Tree data structure and calculation of the order (of B-tree) resulting in best performance on a system	UF, 2009
■ Quantitative analysis of Earliest Deadline First scheduler in XEN Virtual Machines using Simics x86 simulator	UF, 2008
■ Implementation of Prewitt Edge Detection Algorithm on FPGA and comparing its speedup with software implementation	UF, 2008
■ Implementation of Instruction Set simulator for simulating In-Order, Multiple Instruction Issue Superscalar Processor	UF, 2008
■ Design and implementation of a microcontroller based network switch to connect computers using RS-232 cables	SVNIT,06
■ MICROMOUSE: Autonomous maze solving robot mice – an International Level robotics competition	IIT-B, 05

ACCOMPLISHMENTS AND OTHER ACTIVITIES

- Received best student award during training sessions in Atos Origin, Mumbai (2006)
- Secured second rank in 12th grade board exams in school (with 92%) and topped in mathematics, KV Kottayam (2002)
- Secretary of Indian Society for Technical Education (ISTE) Students Chapter, NIT Surat (2004 2005)
- Organized Robotics Competition of College Technical Festival Mindbend, NIT Surat (2005)