

SANTTHOSH BABU SELVADURAI

OBJECTIVE:

To embark a challenging full time position in software design, engineering and product development.

EDUCATION:

North Carolina State University, Raleigh, NC

M.S with thesis candidate,

Computer Engineering

Degree Expected: December 2007

GPA: 3.667/4.0

Research Interests: High performance computing architectures, Service Oriented Computing, Web Services parallel designs, GRID and on-demand computing.

Advisor: Dr. Gregory Byrd, Center for Embedded Systems Research (CESR) group, Dept. of ECE, NCSU

Coimbatore Institute of Technology, Coimbatore, TN, India (Affiliated to Anna University)

Bachelor of Engineering (B.E)

Electrical and Electronics Engineering

June 2003

GPA equivalent to 4.0/4.0

WORK EXPERIENCE

Software Engineering Intern:

May 2007 to August 2007

Software Engineering internship at EMC, RTP to work on the implementation of a service oriented distributed software infrastructure for one of their products.

Part-time Student IT Analyst:

Oct 2006 to till date

At 4-H Family and Consumer Sciences Department, NC State University, Raleigh, US. Perform a broad range of IT tasks including web-maintenance, programming/scripting, image manipulation.

Programmer Analyst:

July 2003 to July 2006

At Computer Sciences Corporation (CSC) various locations, India. Product development, maintenance, application management, support, delivery, quality control, testing and education of Cyberlife; CSC's enterprise class insurance software product.

SKILL SETS

Programming Languages: C, C++, C#, Java (J2EE, EJB, JDBC, JWS DP), COBOL

Scripting: UNIX Shell scripting, HTML, XML, XSL, J/VB SCRIPT, PERL

Software Packages: Apache HTTP, Tomcat, Axis(2), NetBeans, Eclipse, OPNET NM, Subversion

Operating Systems: MS Windows OS, MAC OS X, UNIX/LINUX/SOLARIS, IBM z/OS

DBMS: IBM DB2, MS SQL, My SQL

GRADUTE COURSEWORK:

Fall 2006: Computer Design and Technology, Architecture of Parallel Computers, Computer Networks

Spring 2007: Service Oriented Computing, Computer and Network Security, Introduction to Computer Performance Modeling, Individual research study on Web Services and SOA.

Fall 2007: Advanced Memory Systems, Object Oriented Languages and Systems, Masters Thesis Research.

RESEARCH PUBLICATIONS:

- [1] Santthosh Babu Selvadurai, Douglas E. Brown, Gregory T. Byrd, **Lightweight Web-Service Wrapper for Command-Line Programs**, *Proceedings of the International Conference on Virtual Computing Initiative*, RTP, Raleigh, May 2007
- [2] P.Anbalagan, S.Vasantharathna, Santthosh Babu Selvadurai, R.K.Manimozhian, **Web Based Substation Automation**, *Proceedings of the International Conference on Information Communication*, Science City, Kolkata, December 2001

ACADEMIC PROJECTS/RESEARCH WORK UNDERTAKEN:

- **Evaluating Nedge: Web Services Firewall** May 2007
Research undertaken to evaluate and improve upon the open source web services firewall application.
- **WS-RdbBLAST (Service Oriented Architecture Project)** April 2007
A service based approach to performing distributed BLAST similarity analyses on genomic sequence data
- **Simulation Model of Web Servers for Performance Evaluation** January 2007
Design, develop and test a simulation model of web servers. Modeling is done to analyze service time, waiting and system times through Simulation. Task includes simulation of multiple servers with varying service disciplines and service distributions. (3 stage project)
- **Dynamic Instruction Scheduler on a multistage pipeline** November 2006
Designed and implemented an out-of-order superscalar processor based on Tomasulo's algorithm that fetches/issues N instruction per cycle.
- **Design and implementation of dynamic Branch Prediction Simulator** October 2006
Constructed a Branch Prediction Simulator and used it to design branch predictors well suited to the SPECint95 benchmarks.
- **Design and implementation of a Parametric Cache System Simulator** September 2006
Implemented a parametric cache simulator and used it to design data cache well suited to the SPECint95 benchmarks.

PROFESSIONAL HONORS AND LEADERSHIP ACTIVITIES

- **Employee of the Year 2004** at Computer Sciences Corporation India Division.
- **Employee of the Quarter** (QIII 2004 - Jun'04-Aug'04), **Helping Hand Award** (March 2004), **Best practice Winner / Contributor of most valuable asset** (April to June 2004), **3 Employee of the Month** awards (December 2003, February 2004, and December 2004)
- **IBM Certified for e-Business DB2 Database Associate.**
- Honors Diploma in Web Centric Curriculum (NIIT, India)

ACADEMIC HONORS

- **"Best Outgoing Student of 2003 EEE Department"** at Coimbatore Institute of Technology.
- Represented Coimbatore Institute of Technology at Regional, National and International (CIIC 2001, Calcutta) Conferences and won many prizes in paper presentation and quiz contests.

MEMBERSHIPS (CURRENT)

- Member of **IEEE** (Institute for Electrical and Electronics Engineers).
- Member of **International Computer Society** (A division of IEEE).

OTHER: Available on Request, willing to relocate.

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