

VIVEK ARORA



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OBJECTIVE: Seeking full time Internship/Co-op opportunity to utilize my skills and gain practical experience in the field of Computer Science for Spring 2010.

EDUCATION:

University of Texas at Dallas, Richardson, Texas

M.S. in Computer Science **GPA:** 3.78/4 Expected Graduation: May 2010

Maharshi Dayanand University, Rohtak, Haryana

B.E in Computer Science **GPA:** 3.6/4 Graduation: May 2008

WORK EXPERIENCE:

AREVA, Noida, India (June 2009-August 2009)

Position: Student Intern

- Worked on **e-terrascada** (Areva's proprietary System) for Supervisory Control and Data Acquisition to ensure the quality, reliability and safety of energy flows.
- Maintenance of System Database and generation of timely reports using Crystal Reports.

CERTIFICATIONS:

- Sun Certified Programmer for Java 2 Platform Standard Edition 5.0

ACADEMIC PROJECTS:

- **Enhancement of Message Transport Service**
Currently working as a Student Worker under Dr Rym Z. Mili, Associate Professor, School of Engineering and Computer Science, UTD to include clustered Brokers and Message Encryption in the Message Transport Service already developed for their project Distributed Information Visualization of Agent System (DIVAs). (Technologies used: **Java Messaging Service (JMS)** and **Apache ActiveMQ**)
 - **Distributed Fault Tolerant Web Services**
Implemented Distributed Fault Tolerant Web Services via replication and Leader Based synchronization protocol using Java. (Concepts used: Multithreading and Socket Programming)
 - **Modification and Implementation of MANET Header**
 - a) Designed a Mobile Ad Hoc Network Header to support Real Time transfer of data (audio and video), Active drop of the packets, Bursty Traffic and Broadcast of packets, Congestion Control and Reliability.
 - b) Modified the C++ code of TCP in **Network Simulator-2** to include the above mentioned features.
 - c) Simulated it on NAM (Network Animator) using Tcl Scripts and calculated the 'Throughput' using AWK Scripts.
 - Designed an Algorithm to solve '**Nagamochi and Ibaraki Minimum Cut Problem**' and implemented it using **C**.
 - Developed an Algorithm to solve '**Knapsack Problem**' using '**Branch and Bound Algorithm**' and implemented it using **Java**.
 - Implemented **Performance** (TCP Timeout and Maximum Number of Allowed Connections) and **Configuration** (Graph Displays) Management on a wireless router running the DDWRT firmware under Telecommunications Network Management. Platform used: Linux, Router: Linksys WRT54GL.
 - Designed **Online Pizza Ordering System** (Use Case Diagrams, Domain Diagram, Sequence Diagrams, Activity Diagrams, Class Diagram, State Diagrams) and used GRASP Patterns to refine the system.
 - **Sports and Adventure Tourism System** using ASP.Net and MySQL
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TECHNICAL SKILLS:

Language Exposure: Java, C, C++, HTML, SQL, C#
Databases: MySQL , Microsoft SQL Server, Oracle
Scripting Languages: JavaScript, PHP, Shell Scripting, Tcl
Packages/Softwares: MS Office, MS VISIO, Rational Rose, Visual Paradigm, Eclipse, NetBeans, Adobe Dreamweaver, Adobe Photoshop, Crystal Reports
Operating Systems: MSDOS, Windows 2000/XP/Vista, Linux

RELEVANT COURSEWORK:

- Advanced Computer Networks
- Object Oriented Analysis and Design
- Telecommunication Network Management
- Semantic Web
- Advanced Operating Systems
- Computer Algorithms
- Database Design
- Algorithmic Aspects of Telecommunication Networks

EXTRA CURRICULAR ACTIVITIES:

- Hosted a show “RAGINI” on Radio UTD (University of Texas at Dallas).
- Participated and Coordinated Technical events at College Level.
- Worked as Arts and Crafts Event Manager at Annual Festival for the year 2006-2007.
- Participated in Sports and Cultural activities during Annual Festivals at College Level.

VISA STATUS:

- F1- Student Visa