

Mr. Purnachandra G. Sharma

Objective Entry-level Application Development, Software or Network Engineering position for graduates

Technical Skills
Operating Systems : Linux, Solaris, Windows 9x/NT/2000
Application Development : C, C++, Perl, Java
Web Development : JSP, JavaScript, HTML, XML, MS FrontPage, Apache, JWS
DBMS : MySQL, MS Access
Software Engineering : EasyWinWin, Rational Rose, MS Project 2000, UML, MBASE, ClearCase
Microprocessor Programming: Intel 8086/80x86 Assembly Language

Education
University of Southern California, Los Angeles, CA 2000 – 2001
Master of Science (CSCI), Computer Science

Walchand College of Engineering, Sangli, Maharashtra, India 1996 – 2000
Bachelor of Engineering, Computer Science & Engineering

Experience
Center for Software Engineering, USC (Voluntary) Independent Validation & Verification Person, Spring 2002
Technical Review and Analysis of project artifacts (ref: "Opportunity Tree-based High Dependability Computing Experience Base" in **Projects**), Requirements & Architectural Analysis, Generation of Problem Reports

Database Lab, USC Graduate Research Assistant, Fall 2001
Logistics for CS-599 class, Devised tutorials, Project Progress Tracking web site development and maintenance, Determination of effective BW for an Intel PRO/Wireless LAN system (ref: **Projects**)

Govt. Information Processing Center, VKC Library, USC Student Worker, Oct 2000 – July 2001

Projects

- ❖ Opportunity Tree-based High Dependability Computing Experience Base Fall 2001 – Spring 2002
Development of a framework for warehousing domain-specific information (for instance, defect reduction techniques and empirical data) using Hyperwave, which will emulate an Opportunity Tree traversal and offer domain experts a CASE tool for systematic organization of software engineering experience is in progress. The project has committed to a feasible architecture and is proceeding to CTS stages. The project is contributory to eBASE (Empirically Based Software Engineering).
- ❖ Agents Mediated Database Search using Aglets SDK Summer 2001
Developed a Mediated ABIR (Agents-based Information Retrieval) architecture using ASDK, MySQL & Perl. The system consists of a Master Agent that creates a Database Agent (DA) and a Mobile Agent (MA). The DA mediates between a local MySQL database and foreign MAs. The Master instructs the MA about the foreign ports to visit and the information to obtain. The MA visits the ports, one at a time, and communicates with foreign DA and returns home after obtaining necessary information, which is delivered to the local DA.
- ❖ A Differentiated Services Network Spring 2001
Implemented a network simulation for a simple one-bit differentiated services router which supports premium and best-efforts services
- ❖ Implementation of a BGP-speaking Network Spring 2001
Implemented a BGP-speaking network by spawning multiple processes each of which simulated a BGP router and exchanged policy-based routing data based on configuration files describing a BGP topology
- ❖ Determination of effective BW for an Intel PRO/Wireless 2011B LAN system Spring 2001
Devised a Client-Server system using Windows Socket Programming (WinSock 2) to determine the effective bandwidth for an Intel PRO/Wireless 2011B LAN system
- ❖ Online Shopping Website Spring 2001
Developed an online shopping web site using JSP, JWS, MySQL

Relevant Courses Software Engineering I, Computer Communications, Database Systems, Probabilistic Methods in Computer Systems Modeling, Analysis of Algorithms, Issues of Programming Language Design

Immigration Status Student (F-1) Visa & awaiting Employment Authorization