

Pankaj Guruprasad Sarda

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Education

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| Master of Science in Computer Science (GPA 3.71/4.0) University of Southern California | (Expected) December 2007 Los Angeles, CA |
| Bachelor of Engineering in Electronics (First Class) Shivaji University | June 2003 Kolhapur, India |

Relevant Coursework:

Fall 2007 - Security Systems, Advance Operating System, Internetworking Lab

Spring 2007 - Computer Communication, Information Retrieval and Web Search Engines, Web Technologies

Fall 2006 - Analysis of Algorithms, Database Systems, Artificial Intelligence

Technical Skills

- **Language** : Java, C#, C, C++, prolog, power loom, shell script.
- **Platforms** : UNIX, Solaris, Windows, MAC.
- **Web Servers** : Apache, Tomcat, IIS.
- **Web Languages** : PHP, JSP, ASP, JavaScript, AJAX, CSS, HTML, DOM.
- **XML** : SOAP, WSDL, UDDI, XSD, XPATH, XSLT, XQUERY, DTD.
- **Databases** : MySQL, Oracle, MS-SQL server, File-maker, OR-DBMS, Spatial DB.
- **Networking** : TCP/IP, UDP, HTTP, SSL, Routing Protocols (BGP, EIGRP, OSPF, RIP), DHCP, P2P, ARP.
- **Applications** : AXIS, PHPBB 2.0.22, Zebra, NS, NAM, X-graph, OpenSSL.

Professional Experience

- **Information Science Institute (USC), Los Angeles, USA** (Intern) **Summer-2007**
 - Deployed and evaluated software tools that automatically structure student interactions within on-line discussion boards. Worked on [Pedagogical Discourse Project](#)
 - Responsible for (a) designing tools which monitor the student interactions, (b) rewriting SQL queries to optimize and speed up (nearly 90%) the performance, (c) updating versions of the tools used.
- **Southern California Earthquake Center (USC), Los Angeles, USA** (Software Engineer) **Fall-2007**
 - Worked on a digital library of earthquake information, curricula, and resources for educators, students, and the general public, like [Encyclopedia](#)
 - Responsible for migrating data sources from MySQL to Filemaker. Rewrote the queries using FX functions.
- **AbeeSoft Technologies Ltd. Pune, India** (Software Engineer) **Oct-2004 to June-2006**
 - Built and maintained an ERP system (SCM, CRM, Human Resource management, Accounting, and Inventory control) for a multinational company.
 - Responsible for designing the full Account module, updating the system according to changed tax rules.
 - Managed 4 different projects concurrently.

Academic Project List

- **Implementation of a distributed file sharing system (C)** **Spring 2007**
 - Designed a file sharing application using P2P technology in a distributed environment. Used self defined freenet like P2P protocol over TCP.
 - Another version used Google Desktop API to index and to search the files on a node.
- **Web Services for Information system (JAVA, XML, SOAP, DOM, JDBC)** **Summer 2007**
 - Deployed the services on a tomcat web server. Used the AXIS tool, WSDL2JAVA and AdminClient commands.
 - Integrated services of other students into the current system using DOM objects using XPATH via SOAP messages.
- **Map Explorer (JAVA, Oracle 10g)** **Fall 2006**
 - Developed a GUI in Java using Oracle's object relational & special features that display the location of restaurants, people and allow queries like finding the nearest object.
 - Integrated the A* algorithm to find the shortest path on a map considering the current road conditions.
- **Agent Programming (JAVA, Power loom)** **Fall 2006**
 - Real-life restaurant environment was simulated taking care of all the possible cases like collision avoidance, uniform distribution of resources etc.
 - Instead of control structures Powerloom makes the decisions.

Presentation/Seminars

- Presentation on *IP Address and Related Protocols (DHCP, NAT, ARP, etc.)* **Fall 2007**
- Paper Presentation on *The evolution of the web and implications for an incremental crawler* **Spring 2007**

Certification

- Post Graduate Diploma Certificate in .NET technologies **Spring 2004**
- Certification in Object Oriented Programming in C++/JAVA2.0 **Fall 2002**

Leadership/Community

- President, Rotaract Club of Satara Camp **2000 – 2003**
 - Served as active member of committee, organizing various competitions like Quiz, drawing, dancing.
 - Worked with Rotary International for 'Polio Free India' mission.
- Volunteered for World Peace Meet, Held at MIT Pune. **Fall 2002**