

# Bhavin B Mankad

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<b>Objective</b>	To obtain a position as a summer intern where I can utilize my analytical skills and technical competence and contribute to the employer's business growth		
<b>Education</b>	MS, Computer. Science, Univ. of Arizona,	GPA 3.67 / 4.0	Expected Date - May 08
	Bachelor of Engineering, Info. Tech, Gujarat Univ.,	GPA 79.38 /100	Graduation Date - June 04
<b>Technical Skills</b>	Operating Systems: Linux /Unix Programming Languages: Java ( <b>Sun Certified Java Programmer</b> ), C, Visual C# .NET, C++ Web Development: J2EE (JSP, Servlets, EJB, JNDI, JMS), HTML, XML, Java Script Application/Web Servers: JBoss, Tomcat, WebLogic, Oracle 10G AS Databases: Oracle, XML, MySQL Others: Ant, Eclipse, NetBeans, KDeveloper, Visual Source Safe		
<b>Academic Experience</b>	<b>Teaching Assistant, Software Engineering</b> <b>Jan 07 till date</b> Designing Software Projects for the class, monitoring progress, acting as a client for requirement analysis phase, grading and evaluation of projects		
	<b>Web Developer</b> <b>Aug 06 to Dec 06</b> Designed and developed a fully functional interactive web site using J2EE platform. The backend was MySQL database with JSP as front end and Java Service classes and Servlets as middle tier		
<b>Research Experience</b>	<b>Advanced Execution Systems – Information Flow Security</b> <b>Aug 06 to Dec 06</b> This was a research subject in which I studied various Static and Dynamic Information Flow Secure Systems and proposed enhancements in JIF (Java & Information Flow – A static approach for Information Flow Security) incorporating dynamic analysis part into it.		
	<b>Reputation Based Internet Systems</b> <b>Jan 07 till date</b> This is my current research study in which I am working on analyzing the applicability of reputation based internet systems in various scenarios like SPAM control on email servers.		
<b>Professional Experience</b>	<b>Tata Consultancy Services (TCS), India</b> <b>Dec 03 to Jun 06</b> <u>1. Online Asset Requisition, Tracking and Management Tool</u> <b>Jan 05 to Jun 06</b> This is a tool for managing IT assets of an organization. It includes web-based information system and a tool for network inventory which is interfaced with the system. Role: Module Leader Tasks: Analyzed requirements; Designed technical architecture and database; Programmed Server side components using JSP, Servlet and other J2EE concepts and developed database interaction classes (JDBC with Oracle) and service classes in Java; Programmed for Network scanning/inventory on Unix machines using Telnet/FTP; Used SNMP protocol for Network Management on Unix desktops and servers <u>2. Decision Support Framework</u> <b>Feb 05 to Jun 05</b> This is a framework for online decision making process. The tool facilitates on-the-fly creation of decisions templates on a web page. It has a design mode and data-entry mode. Role: Project Leader Tasks: Analyzed requirements, Acted as interface with the client and handled all client communication activities; Designed system and database architecture; Programmed server-side components using JSP, Servlet and developed Database Interaction Classes for Oracle database using JDBC and Service Classes in Java <u>3. Six Hats and Lateral Thinking Tool</u> <b>Dec 03 to Oct 04</b> This tool is a computer implementation of Six Thinking Hats and Lateral Thinking Techniques of Dr. Edward De'bono Role: Programmer/Developer as Project Trainee		

Tasks: Designed and Developed Proof of Concept for the product; Conceptualized User Interfaces for various modules; Implemented client code using Action Scripting in Macromedia Flash; Programmed client-server communication using XML objects

**Projects –  
Graduate**

**Log-Structured File System**

Implemented a Unix like file system which is optimized for writes with concepts like checkpoint and recovery, segments clean-up, caching etc. Implemented in C over Fedora Linux. Inter-process communication implemented through Berkley sockets.

**Implementation of Router**

Developed a fully functional internet router which routes real network traffic. Routing achieved through Shortest Path First algorithm. Implemented in C over Fedora Linux.

**Projects -  
Undergrad**

**Peer to Peer File sharing system**

Designed and implemented P2P file sharing with Controlled Decentralized Architecture. Implemented concepts like Load balancing, Fault Tolerance, Scheduling etc  
Microsoft Visual C#.NET, Microsoft Access

**Fingerprint Verification System**

Designed and developed Fingerprint Verification System with features like Image Enhancement, Pattern Matching and Verification  
MATLAB and Microsoft Access

**Timetable Scheduling and Management System**

Developed a timetable generation for classes, based on the inputs like faculty work load, availability of classrooms etc. Applied concepts like scheduling, resource allocation etc  
Microsoft Visual Basic 6, Microsoft Access

**Messaging System**

Implemented messenger/chat client-server program which facilitates users with functionalities like friends list, multiple chat etc.  
Microsoft Visual Basic 6, Microsoft Access

**Text Editor and Utilities**

Developed a text editor, in C language, implementing Data Structures like Double-Linked List. Utilities like file and directory operations along with common text editing functionalities

**Professional  
Training  
Conducted**

- Programming in Java
- Web Development using J2EE
- Web Application Security for J2EE applications
- Software Engineering Practices and Soft Skills  
(2.5 months of workshop/training program by TCS)
- Core J2EE Practices
- Oracle 10G Application Server Concepts
- Six Hats and Lateral Thinking Techniques
- Project Management for Project Leaders

**Professional  
Honors**

- Sun Certified Java Programmer (93%) - Apr 05
- Best Performer – Tata Consultancy Services Ltd. (TCS) - Dec 05
- Star of the Month – TCS - Jun 05

**Academic  
Honors**

- Tata Scholar- India's one of the most prestigious scholarships, awarded by J. N. Tata Trust
- Ranked among top 10% of students throughout undergraduate studies.
- Best Seminar presenter in the department for giving a seminar on distributed computing
- Awarded Gold Medal for highest score achieved in "Engineering Mechanics" subject