

OM PRAKASH SINGH

M.E COMPUTER SCIENCE
#S2,64, DECCAN VILLAS ,JALADARSHNI LAYOUT,
NEW BEL ROAD,BANGALORE 5600094

EDUCATION

Degree	Year	University/Board	CGPA or %
M.E. COMPUTER SCIENCE	2006 - 2008	Birla Institute of Technology & Science, Pilani, India	7.71
B.E. COMPUTER SCIENCE	2002 - 2006	U.P Tech, Lucknow, India	72.5

Professional Work Experience

Close to 5.5 years of total work experience in Java, Data Structures, Algorithms and in Object Oriented Designs

Professional Experience	Member of Engg.	Hike Messenger	May 2014 to Present
	Sr. Software Developer	Actiance	Mar 2011 to Present
	Sr. Software Developer	Apostek	Nov 2010 to Mar 2011
	Software Developer	Sabre Holding	Jul 2008 to Oct 2010

1	Project title	Hike Messenger & Analytics [Hike]
Project Description		<ul style="list-style-type: none">Increase tcp connection from 1 Lakh to 3 LakhRe ramp the whole hike analytics system
Role(s) / Responsibility		<ul style="list-style-type: none">Improve the architecture so hike can support 50 million messages per dayChanges in hike analytics architecture to support 800 GB analytics data
Period		May 2014 ~ Present
Client		N/A
Technologies		Netty, MQTT, JMS, Hadoop, hdfs, hbase, redis, mongo db, flume, kafka,Hue
Team Size		5

2	Project title	Socialite Engage [Actiance]
Project Description		Socialite Engage is a web based application Which have following primary feature: <ul style="list-style-type: none">Fetch the authorize user's feedback, clicks, comments, share, re tweets etc. from Facebook, LinkedIn, twitter and generate analytics, archive data and apply compliance security.Implemented OAuth 1.0 (RFC 5849) to provide secure authorization.Generating analytics Reports
Role(s) / Responsibility		<ul style="list-style-type: none">Responsible for the architecture/Design (LLD and HLD) of the whole product.DB Schema DesignLead the backend team and was responsible for everything related to backend functionalitiesWorking with Front team on demand basis (JSP, JQUERY)
Period		Mar 2011 ~ Present
Client		BANK OF AMERICA
Technologies		Jdk 1.5, Eclipse IDE, oracle, jquery, Centos
Team Size		14

3 iAds Report [Apostek]	
Project Description	<p>iAds Report generates reports on the basis of click /impression/conversion on advertisement ads.</p> <ul style="list-style-type: none"> • All records are stored into MySQL database .MySQL contain stored procedure which generate the CSV file after certain time interval. • Hadoop plays a role on those csv file and simplify the data. • Oracle loads those simplified data by the help of SQL loader. • The simplified data are available on website for different ads related user. • Google web toolkit is used for the website development. It contains very good GUI to display the reports in form of different charts and graphs.
Role(s) / Responsibility	<ul style="list-style-type: none"> • Responsible for the architecture of the whole system and lead the design and development of most features from end to end in the product • Added Store procedure to generate csv file from mysql data . • Improve the performance of the application by applying different algorithmic approach and multi- threading.
Period	Nov 2010 ~ Mar 2011
Client	Apple
Technologies	Jdk 1.5, Eclipse ID, oracle, mysql, GWT , Hadoop
Team Size	8

4	Project title	Search engine for SABRE-HOLDING [Sabre Holding]
Project Description		<p>It helps to upload your file so it can be available for others. It integrated with existing sabre wiki.</p> <ul style="list-style-type: none">• Based on user enter search word, it fetches the results.• It provides the offline mapping of the added files in Knowledge Repository; we can add couple of key boards at the time of uploading the file we can provide few key words.• It provides online mapping also. If you feel the search key word is quite relevant with search result, then you can like the button. It will increase the priority of that file with search key word.• It provides document version control. Highlighting feature is also implemented.
Role(s) / Responsibility		<ul style="list-style-type: none">• Responsible for the architecture of the whole system and lead the design and development of most features from end to end in the product• Added Online and offline mapping to make the search results more relevant.• Improve the latency of each search by adding page Ranking, caching, etc..
Team Size		4
Period		Jun 2008 ~ Dec 2009
Client		Sabre Holding
Technologies		Jdk 1.5, Eclipse ID, oracle, mysql, GWT , Hadoop

5.	Project title	Web Check In [Sabre Holding]
Project Description		It helps to reduce the crowd on Airport. Passenger can get there itinerary, seat selection, seat up gradation, APIS information addition. It has adobe flex at front end and core java at back-end
Role(s) / Responsibility		<ul style="list-style-type: none">• Direct talking to customer to gather the requirement• Taking care of front end Design.• Customize the backend with customer requirement
Team Size		3
Period		Dec 2010 ~ Oct 2011
Client		B6,WS,9W,YX,7F,CY,WY,IT,VN
Technologies		Windows XP, Linux, Adobe Flex 3.0, JDK 1.5,J2EE, Eclipse, ORACLE

Academic Projects	
#1	Project title
	#1. Function versioning (CPU dispatching) for GNU C Compiler 4.3.1 (ADVANCE COMPILATION TECH - CS G651)

Project Description	In this Project we implemented the function versioning for different architecture like X86, power pc etc. The compiler understands the system architecture and utilizes the hardware resources at runtime.
Technologies	Linux, GCC 4.3.0
Team Size	2
Period	Jul 2007 ~ Dec 2007

#2	Project title	Sender Initiated Load sharing in Distributed System(ADVANCE OPERATING SYSTEM CS G551)
Project Description	This project is a kind of Simulation where I created threads for individual sites and each sites sharing Loads according to Sender initiated Load Sharing algorithms. I took a different arithmetical calculation as load .The number of Load per site (threads) is randomly decided. I use gnu C Compiler 4.3.0	
Team Size	2	
Period	Jul 2007 ~ Dec 2007	
Technologies	Linux OS, GCC 4.3.0	

#3	Project title	Evaluation of Multi-Core Systems (PARALLEL COMPUTING CS C422)
Project Description	We have used SWARM (Software and Algorithms for Running on Multicore) framework and made some program to evaluate multicore systems. We have made the programs like (i) fully independent tasks (ii) multiple tasks such that each task shares data with one or two other tasks (iii) tasks with frequent I/O operations. And Evaluate the performance of these implementations for different sizes of inputs, and different rates of I/O. Compare these against the same algorithms run on a single core desktop	
Team Size	2	
Period	Jul 2007 ~ Dec 2007	
Technologies	Linux OS, GCC 4.3.0	

#4	Project title	Customizing "find <dir> -exec <cmd>" using pthread (PARALLEL COMPUTING CS C422)
Project Description	We have used "pthread" and "readdir" for this. Actual purpose of this is to find for some "dir" first using find command and if it founds then it will create pthread for rest of the work. Basic aim of this was to investigate the time between a processor like dual core and without any core (normal single core processor). Obviously there was some limitation on the maximum number of threads that a program can create. We have done this on Linux system for an SMP system with Pentium processors.	
Team Size	2	
Period	Jan 2007 ~ May 2007	
Technologies	Linux OS, GCC 4.3.0	

KEY SKILLS

Languages	Java, C, C++, Verilog, Shell Scripting, SQL, UML
Internet Technologies	HTML, JavaScript, AJAX, CSS, XML, JSON, JQuery, GWT,Adobe flex 3.0
Operating System	Windows, Linux, Mac, UNIX
Other Tools/Technologies	Data structures & Algorithms, Web Services(REST AND SOAP), MVC frameworks, object-oriented models ,Hadoop, Lucence, Google Analytics, Eclipse ID, SVN, Firebug, WinSCP, Putty, Web logic, Multithreading, Web crawling

PRESENTATION/CONFERENCES

Presented a paper titled “Sender initiated load balancing in distributed environment” at XXIII All India academic festival APOGEE 2007 at BITS, Pilani.

HONORS AND ACHIEVEMENTS:

- Free software foundation Member (FSF).
- GATE AIR 231 (2006-2007) in computer science.

EXTRA CURRICULAR ACTIVITIES

- Secretary, Mess Affairs, RP Mess (2007 AUG-2008 MAY), BITS Pilani.