

ANKIT JHALARIA

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EDUCATION**MS-CS**, University of Southern California, Los Angeles, CA; (**GPA: 3.68**)**May 2011****BE-CS**, University of Pune, Pune, India; (**First Class With Distinction**)**June 2009****TECHNICAL SKILLS**

Languages: Java, C, C++, C#, PHP, Python
Web Framework: Django
Operating Systems: Macintosh, Windows, Unix
Databases: My SQL, Oracle 9i/10g, MS Access
Web Technologies: HTML, XML, JavaScript, VBScript, JSON, Servlets, CSS, AJAX, Perl, jQuery, WSDL
Web/Application Servers: Jboss, Apache Tomcat
Other Technologies/3rd Party Integration Experience Redis, RabbitMQ, Google Protocol Buffers, Amazon EC2, Facebook, StrongMail

WORK EXPERIENCE

Yahoo Inc! **Software Development Engineer** **July 2011 – Present**

- Working on the existing Java platform for User Data Analytics.
- Main responsibilities include maintaining the current application and adding new features to it.

MindJolt **Software Developer** **Jan 2011 – July 2011**

MindJolt Poker

- Implemented the entire back-end in Python/Django for integrating the Poker Application.
- Implemented the ability for the users to make in game purchases using Facebook Credits.
- Live Application at http://apps.facebook.com/mj-texas_holdem
- Implemented viral features on the app that helped in driving more traffic to the application.

Messaging System

- Worked on the initial implementation of a messaging system that would send out emails to the user of the main Mindjolt application when certain events would happen.
- The implementation involved using RabbitMQ as a message queue and Google Protocol Buffers as a data interchange format.
- The messaging system handled hundreds of thousands of events everyday.
- Used StrongMail API to send out the emails.

MindJolt Facebook Application

- Implemented a new Tabbed Footer on the main application.
- Worked on various viral features that helped in more user engagement.

CallFire – Software Engineer **Internship** **May 2010 – Dec 2010**

- Developed code in PHP, Java & .NET for CallFire's clients to use their web services exposed through REST and SOAP.
- Code Available at http://www.callfire.com/dev/index.php/CallFire_Developer_Wiki under the downloads section.
- Using Google Heat Maps, worked on prototyping a system for the users to view their call statistics.
- Worked on prototyping the logging mechanism in Cassandra using the Hadoop Map-Reduce Framework.

Intersect World, LLC – Developer **Directed Research** **Jan 2010 - May 2010**

- Developed the **Android** Application “My Personal Assistant”
- The application is a one-stop shop for storing user's personal information in a secure fashion. One of the salient feature is “Remote Data wipe” in case the user loses his device.

ACADEMIC PROJECTS

Spatial Database- [Oracle 10g, Java] **Spring 2010**

- Implemented a Graphical Query System that generates graphical results based on the user's selected query.
- Geometrical shapes representing USC buildings, photographers were displayed on the USC map.
- Used Oracle 10g's Object Oriented Spatial Database features with a Java Swing GUI.

Operating System Development-NACHOS-[C, C++]**Fall 2009**

- Implemented different subsystems of NACHOS operating system like thread synchronization, multiprogramming, virtual memory, networking and distributed OS.
- Implementation also involved locks, condition variables for multi-threading, TLB, IPT and page table, RPC and SWAP File and System calls like Fork, Exec and Exit.

SMS Based Car Parking System Software-[Java]**Fall 2008**

- Created an automated process for booking parking spaces through the use of mobile phones.
- Helps the customer find suitable parking space so that he does not end up going to an already full car parking facility. System Administrators get to see a 2-D view of the available parking spaces.

Game Development (OTHELLO)-[C++]**Spring 2010**

- Developed Othello(also known as Reversi) using alpha-beta pruning search algorithm.
- Designed a heuristic function which evaluated the agent's best possible move based on the present board and returned the new board within the given time limit of 2,000,000 clock ticks.

Logical Agents-[C++]**Spring 2010**

- Implemented propositional inference algorithms, the DPLL backward-chaining algorithm and WalkSAT.
- Implemented the algorithms to check whether a given knowledge base entails a query.

ACHIEVEMENTS/ ACTIVITIES

- Student Representative to Master's Students at the University of Southern California.
- Computer Science Senator at the University of Southern California.

MY OWN PROJECTS

- Designed and implemented my own application "Work Diary".
- The application helps the user to track their work related information.
- The application involves the use of Redis as a data structure server and Python/Django as the web framework.
- The application has over 340 monthly active users as of July 2011.
- Deployed the application of Amazon EC2 instance.
- Live Application available at http://apps.facebook.com/work_diary/