ADIL Z. ANSARI

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EDUCATION

University at Buffalo, The State University of New York

Master of Science in Computer Science   *Expected Feb. 2014*

Relevant Coursework:

Analysis of Algorthms	Operating Systems	Distributed and Parallel Processing
Distributed Systems	Networking Concepts	Data Intensive Computing

Gautam Buddh Technical University

Bachelor of Technology in Computer Science   *June 2011*

First Division

PROFESSIONAL EXPERIENCE

Samsung Telecommunications America   *May 2013 - Aug. 2013*

Software Engineering Intern

- Contributed to the development of RESTful web services over mobile platforms.
- Developed Object Oriented code to port the existing framework onto Android networking library, Volley.
- Enhanced the execution of JSON/Bitmap REST calls using Volley's in-memory and disk caching.

eGain Communications Pvt. Ltd.   *July 2011 - July 2012*

Software Testing Engineer

- Provided ad-hoc and case driven testing during product life cycles.
- Led testing efforts as a primary resource on Cobrowse project for global clients like Statefarm, USA.
- Developed an internal knowledge base portal to ensure better collaboration and quick disposal of information.
- Participated in design reviews and provided feedback to multiple teams.

ACADEMIC PROJECTS

Amazon's Mini Dynamo (Android, JAVA)   *Spring 2013*

- Developed a stripped-down version of Dynamo, a backend storage with real time node joins.
- Implemented ID space partitioning and applied ring based routing scheme for load distribution.
- Quorum based replicated Key-Value storage with failure handling.

Totally and Causally Ordered Group Messenger on Android (Android, JAVA)   *Spring 2013*

- Preserved total ordering as well as causal ordering of all messages.
- Retained ordering by combining sequencer algorithm and vector time stamp methods.
- Implemented a key-value table to store all messages on local storage of the device.

Twitter data analysis using MapReduce (Hadoop, JAVA)   *Spring 2013*

- Aggregated and cleaned a data set of approximately 6 million tweets.
- Designed and implemented multiple MapReduce algorithms for word, hashtag and mention counts.
- Tracked the trending topics using discovered knowledge.

Multithreaded Web Server (Unix, C)   *Fall 2012*

- Designed a queuing and scheduler module on separate thread and dispatcher module using thread pool.
- Implemented Shortest Job First and First Come First Serve CPU scheduling policies to serve the requests.
- Developed a functionality to log the incoming requests and to generate a directory index.

Peer to Peer file sharing system (JAVA)   *Fall 2012*

- Decentralized p2p distributed file sharing program prototyped and implemented on Gnutella protocol.
- Search query is flooded through network, and a central routing table is maintained for all peer activities.
- Nodes communicated over TCP alongwith real time traffic monitoring.

CERTIFICATIONS

Oracle Certified Professional, JAVA SE 6 Programmer   *Jan. 2011*

Sun Microsystems certified JAVA Web Application Developer   *July 2011*

SKILLS

- **Software Development:** Incremental methods, Requirements Specification, Software Design and Testing.
- **Programming:** JAVA, C, Python, SQL, MATLAB, Javascript, HTML, LaTeX
- **Platforms:** Android, Hadoop MapReduce, OpenMP, MPI.
- **Operating Systems:** UNIX, GNU/Linux, Win32.
- Familiarity with Threads, Sockets, TCP/IP, Network Programming, REST, version control development using Git.

PROFESSIONAL AFFILIATIONS AND HONORS

3rd best product in communications category at OpenHack   *Summer 2013*

Association for Computer Machinery, Member   *Sep. 2012 - Present*