Kovit Nisar

Available For Full Time Position: **DEC 2016**
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EDUCATION

Northeastern University, Boston, MA
Candidate for Master of Science in Computer Science, GPA: 3.83/4.0 Expected graduation: Dec 2016
Relevant Courses: Programming Design Paradigm, Foundations of Artificial Intelligence, Algorithms, Computer Networks, MapReduce, Cloud Computing

University of Mumbai, Mumbai, India
Bachelor of Engineering in Information Technology June 2011
Relevant Courses: Operating System, Object Oriented Analysis and Design, Cloud Computing

TECHNICAL SKILLS

Languages:	Java (Proficient), Python (Beginner)
Java Frameworks:	Hadoop, Spring MVC, Hibernate, REST
Software's:	Eclipse IDE, Toad, SQL Developer, ANTLRv3, ANTLRWorks, Perforce, Putty, Quality Center, GitHub
Databases:	Oracle 9i/10g/11g, MS Access
Others:	Apache Mesos, AWS EMR, Memcached, Rhapsody Integration Engine

EXPERIENCE

Curaspan, Newton, MA May 2015 - Present
Software Engineer Co-op

Discharge Central and Referral Central

- Integrated Curaspan solutions with EMR systems like Cerner, Epic and NaviHealth.
- Developed solutions like scanning uploaded documents for virus, memcached client implementation and restful web services using technologies like JavaScript, Java and Rhapsody Integration Engine.

Amdocs, Pune, India July 2011 – June 2014
Senior Subject Matter Expert

Batch Interface Framework

- Developed generic application in Java that processes unstructured files by generating EBNF grammar files and parsers using ANTLRv3.
- Received **Letter of Recognition** as this application reduced the time taken to develop and test such parsing logic from 2 months to 7 days as application team's had to write such parsing logic for each unstructured file from scratch.

Purge and Archive

- Designed and developed a Java application that parses xml files based on the rules specified in the xml. It either exports, imports or purges data from database using Oracle's Data Pump API's.

ACADEMIC PROJECT

Computer Networking Project, *Northeastern University, Boston, MA* Jan 2015 – May 2015

Content Delivery Network (CDN)

- Developed CDN using Java that uses DNS redirection to guide the user to the best Amazon EC2 replica server based on network performance and Geo IP location.
- Implemented LFU and LRU cache replacement strategy based on the Zipf Distributed request frequency.

Rebuilt the Operating System's TCP/IP stack

- Implemented TCP/IP protocol in Java using raw socket programming to fetch the contents of a URL.
- Implemented TCP layer functionalities like three way handshake, congestion control, checksum verification, in-order packet delivery and reliability by retransmission. Implemented IP layer functionalities like address verification and error detection.

Web Crawler

- Developed web crawler using Java Sockets and raw HTTP protocol along with cookie and session management.

TCP Variants and Queuing Mechanisms – Research Project

- Analyzed the performance and fairness of TCP protocol variants under different load conditions using NS2.