KUNAL BOHRA

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EDUCATION

NORTHEASTERN UNIVERSITY, Boston, MA — Sept. 2013 - Present
College of Computer and Information Science — Dec. 2015
Candidate for Master of Science: Computer Science — **GPA: 3.66 / 4.0**
Courses: Algorithms, Operating Systems, Parallel Data Processing, Data Mining, NLP, Artificial Intelligence, Information Retrieval in Search Engines, Programming Design Paradigms

RAJASTHAN TECHNICAL UNIVERSITY, India — Aug. 2009 - July 2013
Bachelor of Technology: Computer Science (Honors) — **GPA: 3.8 / 4.0**
Courses: Computer Networks and Security, Microprocessor Architectures, Databases, OOD

KNOWLEDGE

Operating Systems: Linux (Ubuntu, CentOS), Windows
Languages: Java, Python, C, Scheme, JavaScript, Node.js, Bash
Big Data Systems: Amazon EMR, Apache Hadoop, Pig, Hive, HBase, Phoenix, NumPy, Pandas
Networking: TCP/IP, UDP, DNS, HTTP, Wireshark, GNS3, Cisco Packet Tracer
Database Systems: PostgreSQL, MySQL, Amazon S3
Tools & IDE: Git, SVN, GDB, Puppet, PyCharm, IntelliJ IDEA, Visual Studio, Eclipse, pgAdmin

EXPERIENCE

SDE Co-op: Hewlett Packard, Southborough, MA — Jan. - Aug. 2015
♦ HP Connected MX
- Part of cross functional agile team which delivered Beta version of the product.
- Part of 5 person team that developed a new real time file Collaboration feature for cloud data from scratch.

SDE Intern: IBI Group, Boston, MA — May - Aug. 2014
♦ New York 511 IVR System
- Implemented Voice User Interface modules for the IVR system using Node.js framework.
- Built automation tool in Python to interface large data audio set with Voice User Interface.
- Developed Bash scripts to encode audio data for speech recognition engine.

♦ MBTA-realtime API
- Developed a responsive RESTful web app on MVC model using, JavaScript, HTML5

Network Security Intern: Center for Development of Advanced Computing, India — June - Aug. 2012

- Configured Cisco devices to setup network topology and analyzed VPNs for threats.
- Implemented routing protocols viz. RIPv2, OSPF on GNS3 and Cisco Packet Tracer.

Head Teaching Assistant: Northeastern University, Boston, MA — Sept. – Dec. 2014
- Developed the entire logistics and systems framework of graduate level core course.

PROJECTS

Parallel Data Processing — Jan. - April 2015
- Developed various parallel processing algorithms to compute interesting statistics in Twitter social graph.

Data Mining — Sept. - Dec. 2014
- Built a novel classification model to solve citation prediction problem in Bibliographic networks.

Information Retrieval in Search Engines — Sept. - Dec. 2014
- Built a Search Engine prototype with crawler, indexer, query processor using PageRank/BM25 algorithm.

Operating Systems and Kernel Design — Jan. - April 2014
- Upgraded PintOS kernel by adding system-call API, virtual memory, EXT file system and thread scheduler.

Machine Learning — Sept. - Dec. 2013
- Implemented Naive Bayes, Perceptron data classifiers in Python for identifying digital images.

Computer Networks — Jan. - April 2013
- Developed a user interactive, high speed P2P file sharing desktop application in Java and MySQL.

RESEARCH

Author attribution in online social media texts — Sept. 2015 - Present
- Predictive analysis and text categorization using statistical NLP and Machine learning techniques.

Interests: Backpacking, Creative writing, Music, History, Science and Tech Blogs, Cooking.