HARSHALI SINGH

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EDUCATION

Northeastern University, Boston, MA   GPA: 3.42/4.0
College of Computer and Information Science   Expected graduation: Dec 2016
Candidate for a Master of Science in Computer Science
Related courses: Information Retrieval, Web Development, Algorithms, Machine Learning

Projects: **Web Crawler and PageRank**
- Designed a web crawler in Python for focused and unfocused crawling over 20,000 Wikipedia pages.
- Implemented Google's iterative PageRank algorithm to rank the collection of the web crawled documents.

Search Engine
- Developed an Inverted Index and Search Engine in Python over a massive document collection and provided a ranked list of documents using Okapi BM25 retrieval model for a given set of user's queries.

Twitter Sentiment Analyzer
- Accessed the twitter API using Python. Estimated the public's perception (the *sentiment*) of 2016 presidential candidates. Analyzed the relationship between location and mood on a sample of twitter data.

Ramrao Adik Institute of Technology, Mumbai, India   GPA: 3.79/4.0
Bachelor of Engineering in Computer Engineering   June 2012

TECHNICAL SKILLS

Languages:	C#, Java, Python, R, Scheme, HTML, CSS, JavaScript
Web Technologies:	ASP.NET, ASP.NET MVC, JQuery, Entity Framework, NHibernate
Databases:	MS SQL Server, Oracle, ElasticSearch
Framework:	Hadoop, Spark, MapReduce
Software:	Visual Studio, Team Foundation Server, Eclipse, PyCharm, IPython, RStudio, Git, Azure ML

WORK EXPERIENCE

Boston Consulting Group, Boston   June 2015 – Present
Software Engineering Co-op
- Developed enhancements for BCG's Capital Expenditure web application built in C# and ASP.NET web forms.
- Collaborated with business analysts during requirement gathering, analysis, design, testing and deployment phase.
- Developed the UI and business layer of website using ASP.NET MVC, NHibernate and JQuery to manage employee's finance reports subscriptions. This reduced the manual task of performing these operations by 80%.
- Implemented principles of Domain Driven Design, ORM, Repository Pattern, Unit of Work Pattern and followed an Agile software development methodology.

Northeastern University, Boston   Jan 2015 – May 2015
Graduate Teaching Assistant under Prof. Virgil Pavlu.
- Graded and administered the Master's course CS6200 Information Retrieval consisting of 90 students.

Microsoft, Bangalore, India   July 2012 – April 2014
Developer Support Engineer (MACH Program)
- Provided cost effective architecture solutions, deployment, migration and support for ASP.NET web applications to Fortune 500 companies and Federal government agencies across North America.
- Analyzed and debugged web application performance issues (high CPU, memory leak and application crash) using Windows debugger. Performed health assessments and risk analysis for large web server farms.
- Won **Microsoft Power Player** award twice for effectively contributing to Microsoft's Market share by generating business leads for premier customers regularly.