SIDDARTHAN VISVANATHAN

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EDUCATION

Northeastern University, Boston, MA   Graduation: December 2016

Master of Science in Computer Science   **GPA**: 3.8/4.0

Relevant Courses: Algorithms, Information Retrieval, Parallel Data Processing in MapReduce, Data Mining, Foundations of Artificial Intelligence, Web Development, Managing Software Development

PSG College of Technology, Tamil Nadu, India   May 2012

Bachelor of Science in Information Technology   **GPA**: 8.8/10.0

TECHNICAL KNOWLEDGE

Languages:	Java, Python, R, Octave, Racket, Apache Pig
Databases:	MySQL, PostgreSQL, SQLite
Web technologies:	MEAN stack, RESTful web services, Servlet, Restlet, Apache Maven, Tomcat
Standards and Frameworks:	Java EE, Spring framework, AWS (EMR), Hadoop, Elasticsearch (Lucene), Junit

WORK EXPERIENCE

Hewlett-Packard Enterprise, Southborough, MA   Jan. 2016 - Aug. 2016

Software Engineer Co-op

- Implemented and improved multiple RESTful APIs for the product HP Connected MX, a cloud based file storage, backup, recovery and sync-share solution.
- Designed and developed a multi-threaded command line tool that will allow users to download multiple data from multiple users across all platforms in the product using Java and SQLite.
- Developed a prototype to handle dynamic registration of service and its discovery using Apache Zookeeper wrapped over Apache Curator.
- Won a hackathon event held in HPE by developing a prototype that takes an audio/video input, dynamically uses its contents to collect data from social media and produces a trend analytics chart.

Hewlett-Packard (HP R&D), Bangalore, India

Software Engineer   Aug. 2012 - June 2014

- Designed and developed a data collection tool as Java RESTful api to collect printer metrics through cloud.
- Implemented and presented an idea on transforming functional requirements to a template program using JBehave
- Developed an authentication service for HP cartridges that would provide a secured printing via Cloud RESTapi.
- Improved data security in cloud storage system that used Java Spring batch framework.

Software Engineer Intern   Jan. 2012 – June 2012

- Integrated an UI and a Printer simulator in Java to create a virtual printer that is used for testing printer apps.

ACADEMIC PROJECTS

Amazon Movies Review Analysis (in Java, Hadoop, SparkSQL)   Nov. 2015 - Dec. 2015

- Implemented a MapReduce task to find top reviewers whose reviews were helpful to users in choosing a movie.
- Enlarged the dataset by implementing a MapReduce-based crawler to crawl over Amazon product API and OMDB API in parallel and then joined all the datasets using SparkSQL.
- Implemented a web interface to programmatically create EMR clusters in AWS using AWS SDK and dynamically read files from S3 storage and also provide movie recommendation based on genre/rating/awards.

Crawling, Vertical Search (in Python)   Feb. 2015 – March 2015

- Crawled 40k web pages in three machines and indexed them in Elasticsearch after cleaning using BeautifulSoup.
- Implemented HITS and Iterative PageRank algorithm and ranked the crawled pages accordingly.
- Created a qrel file through manual evaluation and created a corresponding TREC evaluation program that outputs various metrics like precision, recall, F1, nDCG, R-precision and Average precision.
- Ran both vector space and language retrieval models over the crawled result with the above qrel and TREC files.