SIDDARTHAN VISVANATHAN

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EDUCATION

Northeastern University, Boston, MA — Graduation: December 2016
Master of Science in Computer Science — **GPA**: 3.87/4.0

PSG College of Technology, Tamil Nadu, India — May 2012
Bachelor of Science in Information Technology — **GPA**: 8.73/10.0

TECHNICAL KNOWLEDGE

Languages:	Java, Python, R, SQL, Octave, Racket
Databases:	MySQL, PostgreSQL, SQLite, MongoDB
Web technologies:	RESTful Web Services, AngularJS, NodeJS, Express, Bootstrap, CSS, HTML, Servlet
Standards and Frameworks:	Java EE, Spring-boot, Hibernate, AWS (EMR, EC2, S3), Hadoop, Elasticsearch, 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 a UI and a Printer simulator in Java to create a virtual printer that is used for testing printer apps.

ACADEMIC PROJECTS

Online Pokemon Nest Locater *(MEAN stack, HTML, CSS)* **http://bit.ly/2gLatf0** — Nov. 2016 - Dec. 2016

- Developed a comprehensive map based website with mobile first design strategy that lets users add/delete location of Pokemon Nests and view global nests marked by other users on a Google Maps API.
- Includes social media features like searching, following and commenting on both users and Pokemon are present.
- Website is live and hosted on Heroku with MongoDB as data storage.

Amazon Movies Review Analysis *(Java, Hadoop, Amazon Web Service, 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.

Vertical Search Engine with Domain Specific Web Crawler *(Java, Python, Elasticsearch)* — 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 to rank the crawled pages accordingly.
- Developed a vertical search engine that will return relevant pages from the crawled data for a given query.