VINEET NAIR
17B, Smith Street | Boston, MA 02120
vineetnair92@gmail.com | 857-277-3696
www.linkedin.com/in/vineetnair92
www.github.com/vineetnair92

EDUCATION

Northeastern University, Boston, MA
College of Computer and Information Science   **GPA**: 3.5/4.0   Sept 2014-Present
Candidate for a Master of Science in Computer Science   Expected-Dec 2016
Related Courses: Programming Design Paradigm, Algorithms, Information Retrieval,
             Parallel Data in MapReduce, Computer Networks, Web Development

Amrita University, Coimbatore, India
Bachelor of Technology in Computer Science and Engineering   June 2014
Related Courses: Data Structures, Database Management Systems, Object-Oriented Programming

TECHNICAL SKILLS

Languages:	Java, Javascript, C#, C, Python, Scheme
Web Technologies:	Node JS, Angular JS, HTML5, CSS3, Bootstrap, JSON
Technologies:	Hadoop, HBase, AWS EMR
Tools:	Eclipse IDE, Github, Elasticsearch, DrRacket, SQL Workbench
Database:	SQL Server, MySQL, MongoDB
Systems:	Windows, Linux

WORK EXPERIENCE

Wynright Selections, *Manchester*, *NH*
Software Developer Co-op   Jan-Aug 2016
- Implemented Pick to Light application in **Java** for Warehouse Management System that processed information from server and either retrieved data from pick module or assigned a task to pick module. Communicated with devices like Zone Controller and scan device to display and scan values.
- Implemented socket communication application using **C#** for the Warehouse Management Control System.
- Collaborated closely with teammates to build an interface for processing messages and storing it in the database for Frito-Lay, Inc. using **C#** and **SQL Server**.

ACADEMIC PROJECTS

Average Flight Delay Calculation- Hadoop
Parallel Data Processing using Map Reduce   Oct 2015
- Implemented a system that calculates the average flight delay for all connecting flights using **Hadoop** MapReduce.
- Implemented join operations and compared the results with join first, join second and filter first operations using **Pig Latin**. The data was stored in the AWS S3 cloud and EMR was used to calculate the average delay.

Web Crawler and Vertical Search
Information Retrieval   June 2015
- Developed a web crawler in **Java** and politely crawled from the seed URL's. Crawled 20,000 pages each on 3 machines with seed URL of the same topic.
- Merged the pages obtained in the 3 machines and indexed them on **Elasticsearch**.
- Implemented Page Rank and HITS algorithm to rank the crawled documents based on relevance.

Indexing Document Files – ElasticSearch Alternative   May 2015
Information Retrieval
- Indexed a document collection of about 85k documents (around 1M terms) using **Java**. The indexer stored indexes in an inverted format to meet the in-memory and disk space issues.
- Reduced overall file size by 30% by performing fixed length encoding on the text.

Roll Your Own CDN
Fundamentals of Computer Network   Apr 2015
- Implemented a Content Delivery Network system in **Python** that uses DNS redirection to send clients to the replica server with the fastest response time. Achieved latencies under 2 seconds through an Active Measurement strategy.
- Implemented a cache replacement strategy at each replica server to optimize the cache hit ratio.