VINEET NAIR

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EDUCATION

Northeastern University, Boston, MA — Dec 2016
Master of Science in Computer Science — **GPA:** 3.50/4
Related Courses: Programming Design Paradigm, Algorithms, Information Retrieval, Parallel Data in Map Reduce, 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:	**Fluent- (**Java, JavaScript, Python) **Prior Experience-** (C#, C, Scheme)
Web Technologies:	node.js, AngularJS, HTML5, CSS3, JQuery, Express, Bootstrap, JSON, REST
Tools:	Eclipse, AWS EMR, AWS S3, GitHub, WebStorm, Elasticsearch, SQL Workbench
Database:	MySQL, MongoDB, SQL Server, Hadoop
Systems:	Windows, Linux/UNIX

WORK EXPERIENCE

Wynright Selections, Manchester, NH — Jan-Aug 2016
Software Developer Co-op

- 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.
- Designed a 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

Customer Portal for Garment Industry — Dec 2016

- Constructed a customer portal web application that allows users to track orders and find the warehouse location. The staff enters the data and updates the order status. Secured the API end points using **Passport JS**.
- Built REST APIs using **Node JS** and **Express JS**. Used MongoDB for storage and accessed it using **Mongoose JS**.
- Designed an MVC based front-end using **Angular JS** and built a responsive **HTML5** templates using **Bootstrap**.

Average Flight Delay Calculation- Hadoop — 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 — 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 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

- 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 — 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.