Gurpreet Shah

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Available: **From Sept 2016**

EDUCATION

Northeastern University, Boston, MA   Sept 2014 – Present
College of Computer and Information Science, GPA: 3.8/4.0   Expected Graduation: Aug. 2016
Candidate for Master of Science in Computer Science
Related Courses: Web Development, Information Retrieval, Foundations of Artificial Intelligence,
            Algorithms, Data Mining, Managing Software Development,
            Programming Design Paradigms

Apeejay College of Engineering, Gurgaon, India   June 2011
Bachelor of Technology in Electronics & Communication
Related Courses: Fundamentals of Computers & Programming, Data Structures & Algorithms

TECHNICAL KNOWLEDGE

Programming Languages:	Java, PL/SQL, C, C++, Python, Racket (Lisp), R
Web Technologies:	HTML5, CSS3, JavaScript, JQuery, AngularJS, NodeJS, ExpressJS
Databases:	MongoDB, MySQL, SQL*Plus
Certifications:	Programming in HTML5 & CSS3 (Microsoft Corp.), Programming in R (Johns Hopkins), Algorithms: Design & Analysis, Part 1 (Stanford), Artificial Intelligence (UC Berkeley)

WORK EXPERIENCE

Massachusetts Bay Transportation Authority, Boston, MA
Masters Project   May 2016 - Present
- Handling discrepancies between the revenue generated at the fare vending machines and the revenue collected at the money room – estimated impact in millions

Cartera Commerce, Inc., Lexington, MA
Engineering Intern   May 2015 – Dec 2015
- Worked on Cartera's B2C site – Splender.com which involved designing and implementing a multi layered web application using MEAN stack in an agile environment
- Consumed Elasticsearch to perform CRUD operations on merchant, offer and product indexes
- Helped developing email service for Amazon SES (refactored from waterfall-async to bluebird-promises), redemption service for PayPal RESTful APIs, address verification service for USPS
- Designed product details page, sign-up page, cashback eligibility and coupon sections using AngularJS and Bootstrap

Infosys Limited, Mysore, India
Systems Engineer   May 2012 – Jun. 2014
- Initiated and implemented a chart rendering functionality using Java and FusionCharts that translated millions of rows of real-time current and voltage readings into dynamic and interactive charts for analytics
- Designed a tool to write data from rows in MySQL to MS-Excel and vice versa using Apache POI-XSSF

ACADEMIC PROJECTS

Northeastern University, Boston, MA
Places to See (WanderMust) Web Application   Jan 2016 – Apr 2016
- Created a responsive MEAN application through which users can view the main attraction points of cities all over the world with the latest Instagram and Twitter photos
- Utilized Google Places, Instagram, Twitter and Wikipedia web services

Song Recommendation System – Data Mining   Jan 2016 – Apr 2016
- Implemented collaborative filtering on the Million Song Dataset's Taste Profile data to predict the play counts of songs
- Implemented model-based, user-based and item-based collaborative filtering approaches using Python

What's Happening Around Me Web Application   Aug 2015 – Dec 2015
- Created a web application through which users can view the latest events happening around their geolocation
- Utilized the EventBrite API to fetch the event details using AngularJS, Java, MySQL and Jersey framework

Web Crawler   Jan 2015 – Apr 2015
- Implemented a topical web crawler in Java to crawl and index HTML pages to the Elasticsearch server
- Evaluated the crawl results using ranking algorithms such as PageRank, HITS, Okapi, and BM25