NASIR AHMED RAFFICK

11 Tetlow St, Apt 11, Boston, MA, 02115 | raffick.n@husky.neu.edu | 617-608-8151
LinkedIn: https://www.linkedin.com/in/nasirahmedraffick | **GitHub**: https://github.com/nasatgithub/

EDUCATION

Northeastern University, Boston, MA
Master of Science in Computer Science   **GPA**: 3.85/4.0   **December 2016**
Graduate Teaching Assistant (CS5200, Database Management Systems)
Related Courses: Human-Computer Interaction, Web Development, MapReduce, Information Retrieval, Database
                Systems, Algorithms

Anna University, Chennai, India
Bachelors of Engineering in Computer Science and Engineering   **GPA**: 8.51/10.0   April 2012

TECHNICAL SKILLS

Languages: C/C++, Java, HTML, CSS, PHP, JavaScript, Racket, Apache Pig
Databases: MySQL, MongoDB, Oracle
Operating Systems: Windows, Linux
Software: Eclipse, WebStorm, IntelliJ, Android Studio, Adobe Photoshop
Frameworks and Technologies: JQuery, AngularJS, React, Redux, Node, Express, Bootstrap, Spring, Struts,
                                  Android, JSP, ElasticSearch, Hadoop, AWS EMR, Git, PassportJS, Maven, JIRA

ACADEMIC PROJECTS

NORTHEASTERN UNIVERSITY, *College of Computer and Information Science,* Boston, MA
Traffic Buddies (MEAN Stack | Bootstrap | MongoDB)   May 2016 – June 2016
- Developed a mobile-friendly social web application using HTML5, AngularJS, Node, Express and MongoDB that allows users to post live traffic information on roads (http://webdev-rafficknasir.rhcloud.com/project/)
- Provided traffic information posted by other users that falls in the route a user chooses to travel on
- Used Google Maps Direction, Place and Geolocation Services for location based functionalities

Amazon Movies Review Analysis (Java | Hadoop | MySQL)   Nov 2015 – Dec 2015
- Developed a MapReduce program using Hadoop library to generate top K helpful reviewers from huge movie dataset provided by Amazon Product Advertising API
- Enhanced dataset by running MapReduce program that crawls over OMDB API for each existing movie record
- Stored the joined datasets in MySQL database and provided movie recommendations to users based on genre
- Built a web application using Servlets and JSP to programmatically create EMR cluster in AWS using AWS SDK and dynamically read files from the S3 storage

Dataset Index and Search Engine (Java)   Jan 2015 – Mar 2015
- Developed a Java program to index large set of documents (84,000) after converting them into Tuple Files
- Implemented an efficient search program on indexed documents by ranking each document based on given query using vector space and language models like Okapi-Tf, Bm25, Laplace and Jelinek-Mercer smoothing
- Improved program performance by 50% by applying multi-threading during documents processing

WORK EXPERIENCE

Novartis Institutes for BioMedical Research (NIBR), Cambridge, MA   Jan 2016 - June 2016
Software Developer Co-op
- Built **RESTful** web services using **Spring** and **Apache CXF** to view and publish biological assays into database to replace the existing desktop application that responded slowly
- Pioneered the development of a web application using **React** and **Redux** to consume the built web services
- Improved the time taken to analyze consistency in a portion of existing antibodies data provided by two different services by several hours by formulating a curation report using Spring

Freelance Web Application Developer (Al Banoosh Trading, Sharjah)   June 2014 - Aug 2014
- Created a **J2EE** full stack web-application, Stock Management System using **Servlets**, **MySQL**, **JSP**, **jQuery**, **CSS**
- Achieved data-integrity on a specific change in stock's attribute values by auto-updating other relevant values
- Prevented data redundancy in the database by applying normalizations

Sedin Technologies, Chennai, India   May 2013 - May 2014
Software Engineer
- Performed UI Customizations in **Java** for an Asset Management Tool (Maximo)
- Reduced debugging time by more than 3 hours by developing tools using Java to find and fix errors efficiently

EXTRA-CURRICULARS: Led college dance team and choreographed dance, won inter-college competitions