VRAJ PARIKH

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EDUCATION

Indiana University Bloomington, School of Informatics & Computing	**May 2016**
Master of Science in Computer Science	**GPA: 3.93/4.0**
Gujarat Technological University, G H Patel College of Engineering & Technology	**May 2014**
Bachelor of Engineering in Computer Engineering	**GPA: 3.81/4.0**

PROFESSIONAL EXPERIENCE

Meltwater Group - *Software Engineer Intern*   **Jun 2015 - Aug 2015**

- Responsible for enhancing web search engine modules including search interface, middleware services and ElasticSearch backend
- Designed and developed a Search Interface with enhanced abilities that enabled 70% of customers to write their own Boolean Queries
- Indexed around 17 million records from MongoDB and MySQL into the ElasticSearch containing Analyzed Fields there by expediting user experience with facets and smart auto-complete feature
- Implemented a Middleware using Java Spring boot that parses boolean queries and generates a query for ElasticSearch
- Involved in deploying the Search Interface on Mesos Cluster as a Docker Container using Marathon

[Agile methodology, AngularJS, NodeJS, ElasticSearch, J2EE, Logstash, Docker, Mesos, HTML and CSS]

Tecso Global - *Software Developer Intern*   **Dec 2013 - May 2014**

- Developed Web based Training & Placement Management Portal allowing better communication between recruiting companies & students.
- Leveraged component based MVC architecture of Java Server Faces (JSF) with MySQL and Hibernate as the model for this application.

[J2EE, Java Server Faces (JSF), Hibernate and MySQL] - *Reduced manual effort for both by approx. 60%.*

ACADEMIC PROJECTS

Kaggle Facebook Challenge – Robot or Human   **Dec 2015**

- Analyzed over 7 million auction records and implemented different Machine Learning Algorithms including Decision Trees, Logistic Regression, Naïve Bayes, Random Forest and k-NN to predict whether a bidder is a bot or a human.
- Performed feature generation and selection from input dataset by writing Java programs and R scripts to develop learning models

[Java, R, WEKA, MySQL]

Yelp Dataset Challenge   **Dec 2015**

- Used Apache Spark, Lucene to index over 1.5 million user reviews for 61K businesses and predicted categories for unknown businesses; preprocessed review text using Stanford NLP parser's Part of speech tagging to improve prediction results.
- Performed business analytics for reviews by users in various cities and coded algorithms that use natural language processing and sentiment analysis to predict the ratings for these businesses *[Java, Lucene API, Python, Apache Spark, MongoDB, Stanford CoreNLP]*

Web Application Development - Tripster   **Apr 2015**

- Developed a web application using MEAN [AngularJS, ExpressJS, NodeJS, MongoDB] stack wherein a user can plan and manage trips, share photos as well as split expenses with his/her friends *[AngularJS, ExpressJS, NodeJS, MongoDB]*

Object Oriented Design Patterns - Game Maker Application   **Mar 2015**

- Developed a Java application that allows user to create a wide range of personalized standalone games by using Java Design Patterns
- Designed a user interface in Java Swings to drag and drop game objects and programmed logic to assign actions to these objects

[Java, JUnit, Log4j, Design Patterns, JIRA, Bamboo, Webstart]

Android Applications

- Coded an application for transforming a 3D cube using OPENGL shaders, textures and lighting through finger gestures.
- Programmed a text-messaging client for mobile devices using Android SDK. *[Android SDK, OpenGL]*

Hadoop Map Reduce Projects   **Feb 2015**

- Configured Hadoop on a local network to setup a multi node cluster; programmed Word Count, Page Rank and BLAST binary execution programs using HADOOP Map Reduce framework *[Java, Hadoop]*

Computer Network Projects

- Developed various multi-threaded UNIX applications in C++ including a Port Scanner with IPv4 support, Bit Torrent client for exchanging files and a wiretap tool to intercept and analyze TCP and UDP packets transmitted over a Local Area Network (LAN).). *[Networking, C++, UNIX]*

TECHNICAL SKILLS

Languages	Java, C, C++, SQL, Unix Shell Scripting, R, OpenGl, WebGL, Latex
Frameworks & Packages	Spring, Hibernate, JSF, JSP, ElasticSearch, Docker, Logstash, Mesos, Lucene, Hadoop, JUnit, Log4j, Weka, Webstart
Platforms	Windows, Linux, Unix, Android SDK
Databases	MySQL, MongoDB
Web Technologies	JavaScript, AngularJS, NodeJS, ReactJS, Redux, Webpack, Karma, Mocha, jQuery, HTML, CSS, Bootstrap, XML, XSLT