

SHOBHA RANI DHALIPATHI

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EDUCATION

University of Southern California, Los Angeles, CA

May 2017

Viterbi School of Engineering
Master of Science, Computer Science
Current GPA: 3.83

Siddaganga Institute of Technology, Tumkur, India

June 2013

Bachelor of Engineering, Computer Science
Received the SIT Gold Medal and Sri Kesava Gold Medal for obtaining the highest GPA (9.46) in the Computer Science class of 2013 (out of 120 students).

WORK EXPERIENCE

Associate Technical Support Engineer

July 2013 – June 2015

Informatica, Bangalore, India

- Troubleshoot and resolved issues by analyzing logs, checking system and product configurations, replicating issue in-house if needed, and eventually isolating the cause by the method of elimination.
- Analyzed issues pertaining to PowerCenter, PowerExchange for JMS, PowerExchange for WebSphereMQ and the B2B Product line: Data Exchange, Data Transformation and Data Integration Hub.
- Developed a project to convert Informatica documentations in PDF format to XML using the Data Transformation tool, as a part of Informatica DiscoveryIQ.

TECHNICAL SKILLS

Programming: Java, Python, C, C++, SQL, JavaScript, HTML, CSS, PHP, NodeJS, jQuery, AJAX, Bootstrap
Databases: Oracle, IBM DB2, MongoDB, MySQL, SQLite
Mobile Application: Android development
Operating Systems: Windows, Linux, Unix
Software: Informatica PowerCenter 9.x, Informatica B2B DX, DT and DIH, AWS EC2, JMS Queues (Apache ActiveMQ and IBM WebSphere MQ), Android Studio

PROJECTS

Title: Bad Driver Reporting Project

- Created Express REST APIs on NodeJS to connect the Mobile App with the Web UI for "Bad Driver Reporting" project –
 - Upload a video file along with metadata to MongoDB. On successful upload, an email is sent to the user with a link with which they can access the new report/video.
 - Retrieve the video file along with the metadata from MongoDB.
 - Update an existing entry in MongoDB with a new image upload
- Developed an Android app prototype, to test the APIs, that records a video and uploads it the server.

Title: Forecast search

- Developed an Android app that displays the weather forecast for a user provided input. The app sends a request to a PHP file that is deployed on AWS. Google maps API is used to get the latitude and longitude for the provided input, which is then sent to Forecast.io to get the weather details.
- Developed a responsive web application, using Bootstrap, which sends a request to the same PHP code as above.

Title: Book genre classification

- Classified books into genres based on their excerpts and summaries, using Random Forest classification technique.
- Used BeautifulSoup to scrape book websites, that already had annotated book excerpts, for the training data set. Used Scikit-learn toolkit to develop and train the classifier model.

Title: Crawling and Searching

- Developed a web crawler in Java, using Crawler4j, which crawls a specific domain and downloads the HTML pages encountered. Pages were then ranked based on PageRank algorithm using NetworkX package.
- Developed a simple search engine using Apache Solr that indexed the above pages, and provides results for queries specific to that domain based on PageRank, with spell check and autosuggest features.

Title: Spam/Ham classifier

- Developed a Naïve Bayes classifier and a perceptron model in Python, which learn from a given labeled set, and then can classify test data as spam or ham.

Title: Chat program, with the messages encrypted using Diffie-Hellman Keys

- Developed a multi-threaded Chat messaging program in Java, where the messages are encrypted using DIH keys. It creates multiple DH keys for 2 parties and a multi-party key, as documented in the IEEE paper "Diffie– Hellman Technique: Extended to Multiple Two-party keys and One Multi-party key".