Vaijyant Tomar

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EDUCATION

Master of Science in Computer Science   May 2018
University of North Carolina Charlotte, Charlotte, North Carolina   3.9/4.0

Bachelor of Technology in Computer Science & Engineering with Honors   June 2015
Dehradun Institute of Technology, Dehradun, Uttarakhand, India   80.36/100

TECHNICAL SKILLS

Development: Java, C, Python, C#, R, SQL, .NET, Android, Google Maps API, Firebase, JSON, XML, Autosys, PuTTY.
Web and Servers: Bootstrap, jQuery, Django, JSP, HTML, REST, CSS, JavaScript, Node.js, Apache Tomcat, IBM WASCE.
Database: MySQL, PostgreSQL, Sybase, SQL Server, Oracle, JDBC-ODBC.
Business Intelligence: Informatica PowerCenter 10.1, SSIS, Tableau, IBM Cognos.
Machine Learning: Pandas, Scikit-learn, NumPy, Matplotlib.
IDE: IntelliJ IDEA, Eclipse, NetBeans, Visual Studio, Android Studio, Spyder, PyCharm, PowerBuilder.
Project Management: JIRA, Agile, Maven, Gradle, Perforce P4V, GitHub.

WORK EXPERIENCE

Infosys Ltd. (Pune, India)
Systems Engineer   July 2015 – December 2016
- Created and tuned various Informatica mappings to validate the data against business rules, extract lookup values and enrich the data as per the mapping documents.
- Developed various Informatica Workflows to load the data from upstream systems and Sybase datastores.
- Created complex mappings in Power Center Designer using *Expression*, *Filter*, *Sequence Generator*, *Joiner* and *Stored procedure* transformations. Created *connected* and *unconnected Lookup* transformations to look up the data from the source and target tables.
- Tuned Perl scripts to achieve business requirement. Added and enhanced GUI of the application using PowerBuilder.
- Worked in an agile environment gaining experience in software development lifecycle and JIRA.

Infosys Ltd. (Mysore, India) (Internship)   February 2015 – June 2015
- Responsible to create GUI and structure the web application, coded the server-side scripts in PHP to accomplish business logic, documented test cases in excel file and created a report in Word document format.
- Implemented best coding practices by having peer review from both the team and the supervisor.
- Received training in Open Source Technologies – Java, Unix, PHP, MySQL.

Indian Institute of Remote Sensing (Dehradun, India) (Internship)   May 2014 – July 2014
- Developed Multi-Modal Road Transport System for Dehradun City using Open Source Tools – ArcGIS and OpenStreetMap.
- Parsed OSM XML data source files to retrieve geo coordinates.
- Contributed to OpenStreetMaps by adding three landmarks on their maps.

PROJECTS

- **Emotion Detection in Speech:** < https://github.com/Vaijyant/CHBM >
  - Extracted human emotion from a human speech, in the English language, by extracting acoustic features.
  - Implement classification models such as Random Forest, Support Vector Machine, K-Means clustering, and Neural Network along with tuning the hyperparameters for the algorithms.
- **Android Applications:** *Calculator, Movie Search, Trivia quiz app, Course Manager*: < https://github.com/Vaijyant >
  - Worked on Android AsynTask service to update the ListView screen.
  - Consumed REST web services and accessed various Google APIs.
- **Loan Dataset Analysis:** < https://github.com/Vaijyant/rep_KDD >
  - Performed Exploratory Data Analysis on Loan Dataset from Kaggle.
  - Implemented CRISPDM and developed Logistic Regression, Random Forest, and Decision Tree models.
- **University portal:** < https://github.com/Vaijyant/rep_SSDI >
  - Python Django framework and MySQL database were used for the application development.
  - Used software modelling techniques such as UML Diagram, Use Case diagram, ER Model, Sequence diagram.
- **Wordament:** < https://github.com/dharak029/wordament >
  - Developed Python GUI Desktop application using pyGame Python library.
  - Developed event-driven and dynamic functionality to the application.
- **Java J2EE Web App:** *Bookstore, Notes*: < https://github.com/Vaijyant/DbS >, < https://github.com/Vaijyant/Notes >
  - Developed J2EE Web Applications using MVC architecture and implementing JDBC-ODBC bridge to access MySQL database.
  - Developed GUI using HTML, CSS, and JavaScript.
- **CopyToFlash:** < https://github.com/Vaijyant/CopyToFlash >
  - Developed Java GUI application to transfer a file from system to all connected flash drives