ANIRUDH K VALSALAN

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Objective: A Graduate student with 3 year's professional experience in software design and development with strong programming and problem solving skills. Actively looking for full-time/ internship opportunities in software development.

Education

The University of Texas at Dallas, Texas, United States

Master of Science in Computer Science　　　　　　　　　GPA 4.0　　　　　　Graduation May 2017

- **Coursework:** Data Structures and Algorithms, Database design, Machine Learning, Operating systems, Implementation of Advanced Data Structures and Algorithms, Statistical methods for data science, BigData Management and Analytics

Mahatma Gandhi University, Kerala, India

Bachelor of Technology　　　　　　　　　　　　　　　　GPA 3.8　　　　　　　May 2012

Technical Skills

Programming Languages	Java, Python, SQL, R, C, JavaScript
Development Environment	Eclipse IDE, Android Studio, Pentaho IDE
Frameworks	Spring MVC Framework, Spring Batch, Hibernate, JDBC, CXF/RESTful Web services
Databases	Oracle 11g, PostgreSQL, MySQL
Web	HTML, CSS, JSP, Servlets, XML
Test & Build Tools	Junit, Ant
Webserver	Apache Tomcat

Work Experience

Summer Intern (Java Developer) at Blu Age Corporation, Dallas, Texas, USA　　　　May 2016-Present

- Worked on the legacy code modernization. Created UML models from legacy code and used them as base to generate an equivalent code for the J2EE architecture.
- Unit level testing of codes using Junit to ensure that the legacy application and the modernized application have the same behavior.

Systems Engineer, JAVA/J2EE Software Developer at Tata Consultancy Services, India.　　　November 2012 –July 2015

- Contributed on the development of **batch program implementation and data migration** using **spring batch** and **Oracle database** technology. Wrote highly optimized code in Java. Won appreciation from clients for efficient delivery of the product
- Designed and developed a website for USA health care company. The architecture followed Spring MVC design pattern and PostgreSQL database. Implemented business logic using Java
- Analysis, design, and programming of viable solutions to high complexity business problems according to user specifications
- Unit level testing of codes using **Junit**
- Exposure to **Agile** methodologies
- Automated the project build using **Ant build**
- Managed a team of four associates for **deploying application in webserver**
- Analyzed and measured source code quality using **Sonar code quality analyzer tool**

Academic Projects

***Implementation of Algorithms*:**

- Multi-Dimensional search: Developed a solution to address the problem of searching an entity from multiple parameters.
- Implemented Kruskal's algorithm for finding minimum distance between two cities in Dallas Fort Worth area.

Machine Learning:

- Implemented Decision tree algorithm using Information Gain.
- Implemented Spam non spam mail classifier using Multinomial Naïve Bayes and Logistic regression.

Big Data Management:

- Wrote map reduce program in Hadoop that implements a simple "Mutual/Common friend list of two friends".

Database design

- Designed database system for a furniture showroom. Done ER modelling and ER model to relational database mapping.

Certifications and Awards

- **Oracle Certified Professional, Java SE 6 Programmer, April 2015.**