PUSHKAR DESARAJU

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SKILLS

- JAVA, C#, C++, C, Python, SQL and PL/SQL .
- JavaScript, HTML 5, CSS, XML, XSLT, HTML.
- Spring Framework, JDBC, JUnit Hadoop, Spark and Hibernate.
- MATLAB, Microsoft Visual Studio and Android Studio.

EDUCATION

Master of Computer Science.   Graduation date: May 2018

Arizona State University, GPA 3.5/4

Bachelor of Technology Computer Science.   Graduation date: May 2014

JNTUH College of Engineering(Main Campus), GPA 3.66/4

WORK EXPERIENCE

Software Developer   July 2014-July 2016

Netcracker Technology Solutions, Hyderabad, India

- Developed an end-to-end solution in Java and SQL to extract data using crawlers and performed extraction transformation and load operations on data and integrated it into Netcracker framework .
- Optimized performance of an application by decoupling its architecture into individual components that interact with each other.
- Automated the process of service activation in client system by developing a SOAP service that sends activation commands.
- Solved numerous production issues and gained proficiency in solving complex problems in a short span of time.

Graduate Research Aide   March 2017 – present

Arizona State University, United States.

- Developed an application to process the image of a protein and output its Contrast Transfer Function as an image in C++.
- Designed a GUI having separate windows to input parameters and display the output image in WxPython. GUI is integrated with the C++ application using boost python.
- Currently developing a project to recognize the structure of a protein in an image using Convoluted Neural Networks.

PROJECTS

Secure Banking System:

- Developed an online banking application with banking functionalities like money transfer, credit card payments and security functionalities like Public key Infrastructure, OTP and encryption.
- Played a vital role in designing the data model and in development of backend using Spring MVC and JDBC.

Hotel Booking System

- Developed an application where travel agents book multiple tickets from a central reservation system based on price of each room.
- The application uses mechanisms like event handling , semaphores and monitors and was developed using .net framework.

Geospatial computations in Apache Spark:

- Performed Geospatial operations using Apache spark and Hadoop Distributed File System over a distributed environment .
- Developed an algorithm to find hotspots in New York city by using MapReduce on 'Taxi Cab' data in spark.

Graph Database:

- Developed a graph database with features like buffer manager , parser, index and disk space management system by modifying an opensource database implementation called minibase
- Implemented features like joins, querying path expression and search operations using Z-curve .