FROILA DSOUZA

(858) 250-9855 | fdsouza@asu.edu | https://www.linkedin.com/in/froiladsouza

Education

Masters in Computer Science Arizona State University- Tempe, Arizona GPA: 4.11/4

Jan 2017 - Dec 2018

Courses: Mobile Computing, Database Management System Implementation, Data Mining, Adaptive Web, Distributed Database Systems **Bachelors of Technology Information Technology** National Institute of Technology Karnataka, India GPA: 3.78/4 **Jul 2010 – May 2014**Courses: Object-oriented Design ,OO Programming, Web Applications Data Structures, Software Engineering, Relational Database Concepts

Work Experience

Software Engineer- Business Intelligence - Oracle Corporation - Bangalore, India

Jun 2014 - Nov 2016

- Led an initiative to reduce support effort by 60% by designing an innovative automated workflow to troubleshoot and diagnose known bugs.
- Migrated legacy **SQL** based BI reports into easily customizable OTBI reports with zero compile/run time errors as a result of extensive integration testing and strong attention to detail.
- Collaborated with multiple products and engineering teams to get a better understanding of the functional requirements and specifications
 and coordinated technical discussions which required top-notch communication skills, analytical skills and problem solving skills.
- Redesigned and Integrated a legacy keyword based similarity documentation tool into the Oracle Fusion main frame that reduced bug resolution time by 20%. The final product supported multiple search sources across several cross product documentation data dumps.
- Developed and customized high quality adhoc **Java** reports for cloud customers using optimized architecture design of drill down hierarchies and slice-and dice mechanisms that reduced average runtime of high volume reports by over 30%.
- Provided customer service to cloud customers with hands on demonstrations over web conferences to resolve issues and explain bug fixes.

Data Science Intern - Data Science Research Group, NITK - Mangalore, India

Jul 2013 - May 2014

- Analyzed existing document classification algorithms and proposed an optimized algorithm that improved classification accuracy by 15% and reduced process runtime through the use of a hybrid data structure.
- Implemented the technique in Java, testing the code on well known datasets and visualized results using Spring MVC and Prefuse API.

Software Engineer Intern - India Innovation Labs - Bangalore, India

May 2012 - Jul 2012

 Designed an Android application that recommends deals for users based on GPS location using Google Maps API and tracked previous shopping history.

Projects

- **Graph Database System:** Transformed RDBMS Minibase into a fully functional Graph Database system using **Java SE**. Converted and extended Relation and Tuple based programs to accommodate and store Node and Edge information.
- Design Enhancement of Resuscitation Documentation Application: Collaborated with multiple doctors and nurses of Mayo Clinic, Arizona to perform a thorough usability analysis to enhance the reliability, efficiency and accuracy of an Ipad based iOS application. Simplified the task of documentation by 40% through optimization of UI design and incorporation of the stylus.
- Solving Mathematical Questions using Echo: Leveraged the Alexa NLP voice recognition APIs to solve specific mathematical problems described in simple sentences. Used Python, DynamoDB and Amazon Web Services to build and deploy the application.
- Data Storage as a Service: Integrated multiple databases and their optimal capabilities, in order to provide the best data storage solution possible with the least prerequisite knowledge and configuration requirements for the programmer, using Java SE, MySQL, Cassandra and MongoDB (NoSQL databases). Exported the functionality of the system as a web service.
- Virtual Learning Environment: Developed a Web based Virtual Learning Environment for students to learn creative and language skills. Integrated a Second Life Virtual Classroom. Built using Java EE, DB2 and HTML, CSS, AJAX for front-end.

Professional Certifications

- Oracle Certified Associate, Java SE 7 Programmer
- Oracle Certified Expert, Java EE 6 Web Component Developer
- Competent Communicator and Leader Certification, Toastmasters International

Tools & Frameworks: Eclipse, NetBeans, SVN,GIT, Android Studio, Spring MVC, AWS

Technical Skills

Core Competencies: Software Development, Data Science, Distributed Systems, Agile Software Development Lifecycle, SOA Programming/Scripting Languages: C/C++, Java, C#,Python, HTML, CSS, JavaScript, AJAX, SQL, Windows, Linux, Unix OS, Android Databases: Oracle,MySQL, Microsoft SQL Server, DB2, MongoDB, Cassandra, DynamoDB

Publications

- "Document Classification with a weighted Frequency Pattern tree algorithm" Published in IEEE International Conference on Data Mining and Advanced Computing 2016, Kerala, India. Won Best Paper Award.
- "Wireless Sensor Network Simulator for Routing Protocols" Published in Elsevier 8th International Conference on Communication Networks -2014, Bangalore, India.