

Bijoy Joseph

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Objective

To join a company that offers me a stable and positive atmosphere and inspires me to enhance and therefore to innovate the work culture for the betterment of all parties concerned.

Education

M.Sc. (Software Technology) 2016 (Pursuing, Graduation: May 2016), Score: 62%

College: Aloysius Institute of Management and Information Technology (Mangalore University)

BCA (Bachelor of Computer Application), 2012, Score: 55%

College: Srinivas Institute of Technology (Mangalore University)

Skills

- **Programming Languages:** C/C++, Java, C#
- **Traditional Database Technologies:** PL/SQL, MySQL, Oracle 10g, 11g, Microsoft SQL Server
- **NoSQL Technologies:** JSON, MongoDB
- **Web Technologies:** HTML, CSS, XML, PHP, JavaScript, Apache Server
- **Java EE Technologies and Frameworks:** Servlets, JSP, Hibernate ORM Framework, MVC
- **Development Tools and IDEs:** Visual Studio, Netbeans, Eclipse, Android Studio
- **Operating System Environments:** Windows, Linux (Debian based/any distros)

Project Accomplishments

Project: Financial Asset Management System

Status: Completed

Worked on the development a mobile app which would let the Financial Life Advisors track customers, get potential customer's details, let the Life Advisors communicate with each other and make a decision as a team.

While working on the project I learned that Android app development takes the concepts of MVC, Learned about the coding conventions to be used, exceptions should not be ignored, generic exceptions should not be cached, learned to write short methods, Learned how to use various Design Patterns and how it helps in reusability of methods and classes. Learned about team work, how to manage the groups which were assigned small modules, got an insight into professionalism.

Role: Project Planning, Coding, UI Designing, object-oriented analysis

Technologies Used: IDE: Android Studio, Core Java, Database: Firebase Cloud Database (Backend as a Service), and JSON

Project Title: Distributed Database Management System

Status: Completed

Developed a web site which uses the concepts of Distributed Database Management System to manage the transaction of goods. The organization has multiple branches located over a geographical location with their own database/a portion of the database. The task was to set up a centralized database management system that manages the database as if it were all stored on the same

computer. The challenges were synchronization of the database such that updates and deletes performed on the data at one location will be automatically reflected in the data stored elsewhere.

I got an insight into the working of Distributed Database Management System, learned how to do project planning and the concepts of Agile Software Development got an insight into the working of Abstract Factory, Builder and Object Pool Design Patterns.

Role: Project Planning, Module Design, Coding, Data Structure Development

Technologies Used: IDE: Visual Studio 2010, Microsoft SQL Server 2005, C#, HTML 4.01, CSS 2.1

Project Title: Advanced Data Compression

Status: Ongoing

Currently working on an algorithm for summation of a file into a small file and regenerating it from the resultant small file. This would let datagrams consume less bandwidth and take less latency to travel from source to destination. Organizations wouldn't have to spend on having a large number of servers because you wouldn't require large amount of RAM and processing power. The files will be regenerated at the destination.

Role: Project Planning, Algorithm Designing, Object-Oriented Analysis

Technologies being used: C, C++

Project: Real Time Social Networking

Status: Ongoing

Currently working on a GPS based Social Discovery and Crowdsourcing App which would let people have real friends and communities instead of virtual ones.

Role: Project Planning, Portfolio Development

Technologies Used: IDE: Android Studio, Java

Publications

- Participated in SACAM International Conference – 2015 held at AIMIT, Mangalore and published a paper on “Comparative Analysis of MapReduce Scheduling Algorithms” in IJIRCCE (The International Journal of Innovative Research in Computer and Communication Engineering)

While working on this research project I learned about the various MapReduce Scheduling Algorithms such as FIFO Scheduler, Fair Scheduler, Capacity Scheduler, Self-Adaptive MapReduce (SAMR), and Delay Scheduler. I did a comparative analysis on FIFO and Fair Scheduler. While working on the paper I got an insight into the working of Compute Clusters, Grid Computing, resource allocation mechanisms. I realized the importance of Big Data and Business Intelligence for an organization's decision making process. It is fair to say that Data is the new Oil!!

Key Strengths

- Creativity
- Design Thinking
- Lateral Problem Solving
- Strong analytical and problem solving skills
- Strong comprehension