ADITYA DEVENDRA PANDEY

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Academic Background

Master of Science - Computer Science - GPA: 3.57/4.0 Graduation: May 2018
University of Texas, Arlington
Bachelor of Engineering - Computer Engineering - GPA: 7.08/10.0 Graduation: May 2016
University of Mumbai, Xavier Institute of Engineering - Mumbai, India

Computing Skills

- **Programming Languages**: Python, C, Java, JavaScript, PHP, C++, Assembly, Arduino
- **Statistical Language Tool**: R Programming, MATLAB
- **Web and Application Frameworks**: Flask, Node.js, Android Studio, Hadoop
- **Software**: Microsoft Office, Microsoft Windows, Linux
- **Database**: MongoDB, SQL**,** Minibase, AWS RDS, Oracle
- **Cloud Computing Services**: EC2, S3, RDS, EB, ElastiCache, IBM Bluemix
- **Currently Experimenting**: Node.js, Firebase, MongoDB, Python, Ruby

Projects

TTL-Privacy (Time-to-Live)

- A secret means of communication between its users to maintain the integrity and confidentiality of the message.
- The concept is not just burn after read, but also with a TTL for every message when it is composed. The message will be deleted even if it is not read after the allotted time.

Hadoop Map/Reduce Implementation

- We used Hadoop Map/Reduce Paradigm on a dataset which consists of weather data gathered on an hourly basis for Texas State form year 2005 to 2011.
- We implemented a custom sort algorithm to sort the temperature data and we also implemented sampling technique to determine the non-uniform temperature ranges and sorted accordingly.

Concurrency Control Transaction Manager

- The Transaction Manager manages concurrency control using strict 2-phase locking protocol with shared lock for read operations and exclusive locks for write operations.
- Also, we had to implement a pool of mutex's, semaphores and condition variables to ensure the operations belonging to the same transactions are executed in proper order.

B+ Tree Implementation

- Developed a complete B+ Tree data structure in Minibase database system.
- Java Programming was used as a tool to hardcode and synchronize the Minibase Libraries into the project.

Server Controlled Multi-Client Chat Messenger

- A client can chat with multiple clients privately and also can broadcast his messages.
- The server is the intermediate source. He can handle clients by commands like, 'clients', 'kick', 'raw', 'quit'.

Lyrics Finder

- This is a general Lyrics Finder server, in which we can query an English as well as Hindi, Marathi songs. It also shows the related songs for a query.

Final Year Project: Mobile Anti-Theft System

- An Android client application project based on GPS satellite tracking system.
- It had the following key features- Switch to General mode from Silent mode, Raising an Alarm, Receiving notification on SIM card change, Content Deletion, Activation of MIC, Getting GPS location

Professional Experience

Summer Internship June 2016 – Cloudstrats Technologies, Mumbai, India

- Developed an Android application "XFix Services", a product of Cloudstrats Technologies which provides the interface between the customers and the services that the company provides.
- Developed a website for the company product "XFix Services".
- Was part of the database Migration project from Gmail to Office365.
- Developed an understanding on Oracle database and further analyzed large and complex datasets to complete projects provided by the company.
- Worked on two projects of developing websites for the clients.