Shaleen Mathur

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Education

University of Buffalo, The State University of New York 2015 - Expected Dec 2016
Master of Science, Computer Science and Engineering, GPA: 3.71

Graduate Coursework: Distributed Systems, Data Intensive Computing, Algorithm Design and Analysis, Machine Learning, Database Systems, Information Retrieval, Computer Security, Machine Learning in Robotics

Indian Institute of Technology(IIT-ISM), Dhanbad, India 2009-2013
Bachelor of Technology, Electronics and Communication Engineering

Undergraduate Coursework: Database Management Systems, Computer Networks, Operating Systems, Data Structures, Computer Programming, Microprocessors, Embedded Systems

Work Experience

Java/Android Developer Intern May 2016 – Aug 2016
Vairdo Inc.
Design and improve Android application that is used in conjunction with Vairdo's new consumer product, the EYSE. EYSE is a 3D camera and Driver's Assistance device. The application live streams VR compatible video from EYSE.
Projects:

> **Posture Improvement Android Application**
> Created an Android application which guides user sitting on desk in from of a computer to maintain correct posture. The application uses camera to detect slouching and alarms the user
>
> **Sleep Detection Android Application**
> Created an Android application that can detect if you fall asleep while driving a car. The application is ubiquitous. Tested to work on people of different skin tone, height, race, gender, with or without glasses. Application manage to perform decent in low light conditions
>
> **Speed Meter Android Application**
> Created android application to calculate Current Speed, Max Speed, Average Speed, duration of trip and Distance travelled. Application alarms you if you cross set speed limit. Speed can be calculated in KMPH or MPH based on your location

Technologies Used: Android SDK, Android NDK, Java, Web socket Programming

Associate Technical Analyst (FLEXCUBE) September 2013 – July 2015
Oracle Financial Services Software Ltd.
Involved in low level design changes of the module codes to provide the functionality required by the client. Involved in the continuous enhancements and fixing of production issues
Functional Domain: Banking, Loans, Consumer Lending, Payments
Technologies Used: Oracle PL/SQL, SQL, Oracle 10g/11g, Oracle Flexcube

Academic Projects

Amazon Dynamo
Designed and implemented a replicated key-value storage system on lines of Amazon Dynamo on the Android platform. Data is stored in local SQLite databases supporting partitioning, replication and failure handling. Technology used: Java, Android API 19, socket programming

Group Messenger Application on Android
Created a multicasting messenger app, which guarantees FIFO and Total ordering even under a failure, on android API 19 using Android Studio. Stored messages from all instances of app in content provider using Internal Storage. Technology used: Java, Android API 19, socket programming, B-Multicast

Exploratory Data Analysis Using R
Performed Data Acquisition, and Simple Exploratory data analysis using R for twitter data. Performed EDA of one month of data from realdirect.com. Based on the analysis created a report suggesting new line of business for realdirect.com. Technology used: R, Exploratory Data Analysis, R Shiny

Multilingual Search System
Built a complete search system, including a front end that allows users to search and browse multilingual data. Data was fetched from twitter in 4 languages (French, English, Russian, German) using rest API and indexed using Apache's solr. UI was created using Banana tool. Technology Used: JavaScript, Alchemy API, HTML, Apache solr

Languages and Technologies

Languages: Java, Python, Matlab, R, SQL, PL/SQL, C/C++

Tools and Packages: MapReduce, Hadoop, Oracle Flexcube, Apache Solr, SciPy, NumPy, Matplotlib Android SDK Platform Tools

Others: Git Version Control System, Linux, Windows 98 –Windows 10, OS X Operating System