**AMAN HASAN SHAIK**

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**OBJECTIVE:**

Seeking an entry level full time position as a software engineer.

**EDUCATION:**

**Master of Science** in **Computer Science**  Dec 2017

Arkansas State University, Jonesboro, AR GPA: 3.18

**Bachelor of Technology** in **Electronics and Communication Engineering** May 2015

GMR Institute of Technology, India

**RELATED COURSES:**

Automata Theory, Artificial Intelligence, Solid Modelling, High Performance Computing, Analysis of Algorithms, Data Mining, Mobile Application Development, Cloud Computing, Image Processing, UNIX.

**TECHNICAL SKILLS:**

Programming languages : C, C++, JAVA, Python, RUBY

Scripting Languages : HTML, CSS, XML, Shell script, Node.js, JSON, Angular

Databases : Oracle, MySql, MongoDB

Framework & Tools : Android Studio, VirtualBox, Matlab, Eclipse, Hadoop, MapReduce, CUDA

Operating Systems (User Level) : Windows, Ubuntu, MAC

Packages : MS Office Suite

**ACADEMIC PROJECTS:**

**Image Converter**

* Developed any format to jpeg and pdf image converter application in **JAVA** using **Hadoop** and **MapReduce** framework on **Cloudera** installed on **virtualBox**.
* Wrote a paper on Image Conversion in Hadoop using Cloud Computing Environment and presented in my class.

**Autonomous Driving**

* Done a project and wrote a paper on Autonomous Driving by using **GPU** and **CUDA** in **C++** in a group of 3.
* Studied **kernel functions** and implantation of kernel function to be called from CPU code.
* The output of the project is verified by considering a matrix as a real world map and presented it in my class.

**Attendance Monitor**

* Developed an **Android** Application which can be used as an attendance system for a class.
* Implemented JSON parsing and Used google geolocation API’s.
* Used **Node.js** for scripting, **phpMyAdmin** for database construction and **Xamp** as a virtual server.

**Decision Tree**

* Designed an algorithm to build a Decision Tree in **Python** to display the possible consequences and event outcomes.

**Wumpus World**

* Designed wumpus world game using **C++** byusing Artificial Intelligence approaches.
* Studied Horn clauses and forward-backward chaining inference methods.

**Motif Finding**

* Using **KMP** algorithm wrote a program for motif finding in **Java**.
* The run time of prefix function and matching function are derived and compared to the total run time of KMP algorithm.

**Sorting Algorithms Running Time**

* Analyzed and compared the results of sorting algorithms based on the both experimental results and theoretical results in **C++**.
* Studied the methods used in the implementation of algorithms for programming and their efficiencies and inefficiencies.

**Face Detection**

* Gave a presentation on Deep learning Algorithms for Face Detection in a class of 60 students.
* Studied about the usage of Convolution Neural Networks and the usage of methods in the practice of face recognition.

**Alert on Emergency**

* Done a project for alert on emergency using **GPS**, **GSM** modules and an **Aurdino** board.
* Verified it by receiving inputs from GPS and sending an SMS through GSM modules.

**Path Follower**

* Built a robot which can follow a path and can avoid hitting any obstacles in its path by using **Logic gates** and **IR sensors**.
* Later implemented the idea using **8051 Microcontroller** forbetter design and easy construction**.**

**WORK EXPERIENCE:**

**Data Analyst and Mobile Application Developer** -Arkansas State University, JonesboroFeb 2016-Dec 2017

* Worked as a Data Analyst and Mobile Application Developer as a part time student worker at Arkansas State University.
* Developed an **Android** Application **Employee Tracker** for my university to track the university vehicles on campus.
* Worked in accordance with other developers to complete various tasks.
* Asynctask used to pull JSON data.
* Utilized SQL Database and Java.
* Displayed JSON data in recycler view.
* Used Google Maps location services and GPS location services API.
* Used XML to deliver an industry standard UI functionality.
* Updating, monitoring the data of college facilities and management.
* Writing reports for various departments within the Facilities.
* Conducted a Facilities Management employee satisfaction survey, potentially specific to each work discipline.
* Reviewed and documented Facilities Management process workflows with flow charts, narratives, time lines and updated procedure documents.