AMIT SHAH

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OBJECTIVE:

Diligent Computer Science enthusiast looking to solve challenging problems in your firm through a Software Development opportunity.

EDUCATION:

MS in Computer Science at **Rochester Institute of Technology (R.I.T.), NY** **(Expected) May 2018**
Courses: Foundations of Algorithms, Distributed Systems, Web Services, Big Data Analytics, Advanced Object Oriented Programming Concepts, Foundations of Computer Vision. **GPA: 3.7**

B.E. Information Technology at **L.R Tiwari College of Engineering, Mumbai, India** **June 2014**
Courses: Data Structures and Algorithms, Object Oriented Analysis and Design, Software Engineering. **GPA:** 3.6

SKILLS:

Programming Languages: Java, Python, C#, JavaScript, WPF, MATLAB, C++, C, Android.
Web & Database Technologies: HTML/CSS, **Node.js**, Cassandra, MongoDB, JSP, SQL, MS Excel, Tableau.
Operating Systems: Windows, Linux, Mac OS.

INDUSTRY EXPERIENCE:

Software Developer Co-op at Alstom, Rochester **Sep 2016 – Dec 2016, June 2017 – August 2017**

- Worked on a standalone desktop application in C# & WPF to create a simulation of trains crossing tracks.
- Fixed issues in the current software application by extensive research and performed code optimization.
- Adopted **Singleton** pattern and **Abstract Factory** Pattern to ensure the code cleanliness and efficiency.
- Implemented an object-oriented approach in constructing the entire application.
- Developed scripts in **IBM DOORS** for requirement management to automate deliveries and to create KPI's.

Web Developer Intern at RIT School of Math, Rochester **Jun 2016 – Aug 2016**

- Developed **interactive** web-based **JavaScript** programs to illustrate concepts of cardiac arrhythmias.
- Created a graph plotting mechanism which was used to plot many graphs throughout the project.
- Used **Node.js** framework to compile code, export modules that were created within pages for reusability.
- Adopted **Jekyll** service to render the project on the website using GitHub pages.

Associate Business Analyst at Hansa Cequity, Mumbai, India **Jul 2014 – Jul 2015**

- Developed and Implemented statistical models for customer retention, churn prediction, up/cross-sell, customer lifetime value using predictive modelling techniques.
- Extracted data to execute targeted campaigns, developed insights by analysing past data, used insights to improve customer retention rate (by up to 5% of 2 million at times) and created business model for clients.
- Performed **Market Basket Analysis** to identify products which are likely to go together and create opportunities for targeted campaign.
- Diligent scrutiny of potential problems, followed by investigation for inconsistencies in data or processing and resolving the problem using accurate solution.
- Automated the daily and weekly report processes using **SQL Procedures**.

PROJECTS:

Social Networking Cloud Application (Java, JSP, Cassandra, Docker)

- Designed a Facebook-like cloud application built on Docker and hosted its data on Cassandra cloud.
- Performed load balancing by distributed hashing and Round-robin.
- Achieved Fault tolerance by replication and constantly monitoring the system via heartbeat.

Query Engine (MongoDB, Node.JS, JavaScript, HTML)

- Built a web-based query system based on MongoDB database to extract data for web services.
- Used Node.js to query MongoDB using user-specified keywords and filters, host data on a RESTful API.

Distributed System File Search and Replication. (Java)

- Implemented the Distributed hash table and enabled user-selected File Insertion in constant time.
- Designed a system for File Search in a Distributed environment in logarithmic time through hashing.
- Monitored the file requests and cached the file to servers if it was popular.

Movies Near You (HTML, JavaScript, RESTful API)

- Developed a web-app to display list of real-time movies in theatres, their trailers, IMDB rating.
- Consumed RESTful API's to include feature to book tickets in theatres based on user's location.
- Used JavaScript to query and parse real-time JSON data and to create a GUI.

Connect Four Game: (Java)

- Created a simulation of the Connect Four game using the **MVC Architecture**.
- Added functionality to play the game Single Player, Multiplayer or on network with **TCP/IP, RMI and UDP**.

Diabetic Patient Data Analysis: (WEKA, Python)

- Performed data cleaning by eliminating outliers, filling in missing values, binning & discretization.
- Performed classification by using **J48** decision tree, **InfoGain**AttributeEval in Weka to classify data and construct model for prediction.