

# VIVEK KAUSHAL

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## Education

**The University of Texas at Arlington**  
MS Computer Science 2016

**Gujarat Technological University**  
BE Computer Engineering  
2013

## Skills

### CODING SKILLS

Python  
Rebol3  
JavaScript  
HTML/CSS  
Lua  
C#  
Blockly  
ASP.NET  
ReactJS  
jQuery  
XML  
JSON

### CLOUD SERVICES

IBM Bluemix  
Amazon Web Services  
Windows Azure

### TOOLS

VIM  
Google Apps  
Microsoft Visual Studio  
RabbitMQ  
Python IDE  
Microsoft SQL Server  
MySQL  
Mathworks MATLAB  
Weka  
Wireshark  
Microsoft Office  
Microsoft Visio

### OPERATING SYSTEMS

macOS  
Windows 7/8/8.1/10  
Ubuntu Server  
Windows Server 2012  
Ubuntu

### PROJECT MANAGEMENT

SCRUM  
GIT  
CoCoMo  
Microsoft Project

## Employment

### Atronix Acquisition Corp.

Software Engineer

Norcross, GA  
Oct. 2017 to Current

- Study specifications of different protocols like STOMP, Zebra Printer & Apply etc. and write libraries in Rebol3 to use them.
- Write Rebol3 services for ASCADA, to make logical decisions for the warehouse automation.
- Create, deploy and maintain MySQL schemas for multiple products and projects.
- Deploy the developed solutions at the client locations and provide support and initial training.

### Hotelsoft Inc

Software Engineer

Fremont, CA  
July 2016 to Aug. 2017

- Debug Lua and JavaScript codes of HotelSoft One.
- Write Python code to support backend services of the product.
- Develop and maintain property configuration UI using ReactJS.
- Write google scripts and SQL queries to validate and update the existing data.
- Attend weekly SCRUM stand-up meeting.

### Aavid Technologies

Software Engineer

Ahmedabad  
May 2012 to June 2014

- Got trained on Microsoft .NET framework for web development and developed Job Search Portal.
- Won the [Best Intern Award in 2013](#) and was also offered full-time position.
- Developed company's .NET Web Apps and Windows Phone projects.

## Professional Projects

### Atronix SCADA

Oct. 2017 to Current

- Write Rebol3 code for automation of different Material Handling warehouses.
- Integrate with PLC to write and read data of different devices like photoeyes, conveyors, Zebra printers etc.

### Hotelsoft One

July 2016 to Aug. 2017

- Debug [JavaScript](#) and [Lua](#) code of the product.
- Develop UI for the product using [ReactJS](#).
- Write [Python](#) code to support the backend tasks.

### Job Search Portal

June 2012 to May 2013

- Conceptualized the web application and developed it right from the scratch using [C#.NET](#) and [ASP.NET](#).
- Also developed and managed the database and all other database related tasks of the project using [MS SQL Server](#).

## Personal Projects

### Sentiment Analysis of Recorded Voice

Apr. 2016 to May 2016

Using Python Flask framework and [Twilio API](#) created a web interface to call the user and transcribe the message recorded by the user and performed [sentiment analysis](#) on it.

### Python Flask Application to upload files on AWS and IBM Bluemix

Feb. 2016

Developed a [python flask](#) application using Python 2.7.11 to upload data to cloud providers like [AWS S3](#) platform and [IBM Bluemix](#) Object Storage.

### PCA-Based animal recognition

Nov. 2015 to Dec. 2015

Used [PCA algorithm](#) for getting the features of animal faces from the image data set and applied [k-Nearest Neighbor](#) classifier to classify four different species of animals from a set of animal images.

### Client Diagnosis support system using Association Rule Mining

Oct. 2015 to Nov. 2015

A website for predicting the diagnosis using the associated symptoms that occur frequently using APRIORI algorithm on a real time data set of about 1 gb with more than a million tuples.

### Analyzing extensive Healthcare database

Sept. 2015 to Oct. 2015

- Normalized and visualized the data set to obtain the insights and extract descriptive statistics such as median, average, accuracy, precision and recall to understand the data better.
- Also performed [K-Means clustering](#) to find the correlation in the existing data set.

### Classification & Clustering of Standard dataset

Aug. 2015

- Classified standard ATT, Iris and blood transfusion data sets by [K-NN](#), [K-Fold Validation](#) in [Python](#) and [SVM](#) toolkit in [Weka](#).
- Also clustered the data sets using [k-Means Clustering](#) and [DBSCAN](#) clustering algorithm in [MATLAB](#)

### Ayurveda

June 2013

- A Windows Phone App to let users know about the cure for a disease based on ayurvedic remedies based on the lectures by Shri Rajiv Dixit.
- Won [3rd Prize](#) in [Nokia Do Good Hackathon](#).