

# RAJAN VAGHELA

IV<sup>TH</sup> YEAR COMPUTER SCIENCE AND ENGINEERING, B.TECH, INDIAN INSTITUTE OF TECHNOLOGY, JODHPUR



## WORK EXPERIENCE

**2016** Web Development Intern at  
Almashines Technologies

### Email Composer for Admin portal

- Developed a module for admin-side mail-service which incorporated editor for mail draft
- Editor was implemented using tinyMCE JavaScript library and plugins for CSS templates were developed
- User Interface was implemented using AngularJS Framework and standard mail templates were stored on database using MySQL

### Universal Web Scraper

- Designed and developed Data building web application using Django Framework
- Application crawls URL entered by user and extracts text based on preconfigured regular expression
- BFS, DFS, custom search and depth control options were implemented to customize crawling

I aspire for a job in software industry whereby I can utilize my knowledge and make best use of my skills. I want to commit myself to achieving goals, as part of a team, utilizing my abilities and dedication for the benefit of the organization. I am friendly outgoing and resourceful with strong listening skills and the ability to ask the right question to quickly diagnose problems which makes me a valuable asset in any team.

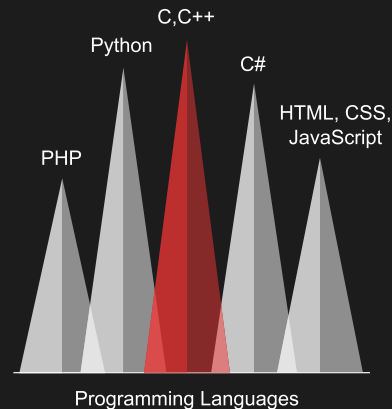
## CONTACTS

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## TECHNOLOGIES

## SOFTWARE SKILLS

Visual Studio ●●●●●  
PyCharm ●●●  
Android Studio ●●●●●  
Photoshop ●●●●●



## EDUCATION

**2013** Graduation [B.Tech]  
IIT Jodhpur  
CPI /%: 6.6

**2012** Intermediate [G.S.E.B.]  
Diwan Ballubhai School, Ahmedabad  
CPI /%: 87.2

**2010** Matriculation [G.S.E.B.]  
Diwan Ballubhai School, Ahmedabad  
CPI /%: 94.8

Client Side: AngularJS, Bootstrap  
Server Side: Web Socket, Microsoft Azure  
Frameworks: CodeIgniter, Django, .NET  
Database: MySQL, SQLite  
Platform: Universal Windows Platform, Web  
Version Control: Git

```
#include<bits/stdc++.h>
int main()
{
    int status = GetRadarInfo();
    if (status == 1)
        LaunchNukes();
    return 0;
} // Last C++ mistake ever!
```

## PROJECTS

- 2016** Heart Disease Prediction using Advanced Sensor Data and Machine Learning
- The aim of the project is to predict possible heart disease from the patient dataset using classification algorithms and determine which model gives the highest percentage of correct predictions for the diagnoses
  - Two class SVM and Multi Class Decision Jungle Classification Algorithms were used to train the prediction model hosted on Azure ML
  - The prediction model was deployed in form of a Windows Phone Mobile application that worked along with Microsoft Band, which was used to collect user's heartbeat and other sensor data, that functioned by consuming prediction model's REST API
- 2015** Lifesaver! A Health App
- Developed a windows phone application for emergency first response in case of a cardiac arrest.
  - Application detects an emergency by crunching data from the Microsoft Band. For users without the wearable, application contained module for heartbeat and stress level measurement implemented using Lumia SDK
  - Tech Stack included usage of Google Places API for information about Hospitals, Azure Notification Hub for notifications, Azure Mobile Service for Data Application backend deployment, SQLite for local database and implementation of MVC and Singleton Design patterns
- 2016** Multi-Client-Server Chat Room App
- Developed a chat room application using Winsock2 library using stream sockets.
  - Implemented user interface using MFC library for Visual C++
  - Multithreading was used to manage multiple simultaneous chats with threads being selected from an initialized threadpool and locking to prevent race conditions
- 2016** Fees Management System
- Developed a Fees Management System based on universal windows platform, which included modules for fees payment, automatic receipt generation, email confirmation, complaint registration and payment history
  - Followed Agile software development methodology, used MVC design pattern and used SQLite to manage database layer
- 2016** DayTrek! Travel App
- Developed a Universal Windows Phone Application that plans a customized travel itinerary for an entire day for a user at a single click
  - The app used Google Places API to gather Points of Interests and used user's facebook feeds to determine what kind of a traveller the user is that was used to choose user specific POI's
  - The itinerary generation algorithm was a graph based algorithm the planned the route considering the factors of distance, time of day and user reviews

## PASSIONS

Coding - Tennis - Football - Gaming



## ACHIEVEMENTS

- **Winner** of Microsoft Code.Fun.Do. Finalist Forum National Level Hackathon (2015). Presented Winning application to **Satya Nadella, CEO, Microsoft Corporation** at Tech for Good – Ideas for India, New Delhi, 2016
- **Runner-up** at Microsoft Code.Fun.Do. Campus Hackathon, January '15 and January '16



## ACTIVITIES

- Represented Institute in 49th and 50th Inter-IIT Sports Fest by being part of the contingent's Tennis Team.
- Assistant Coordinator ,Ethical Hacking Workshop , Ignus'15 , Inter-College Socio-Tech Fest

## RELEVANT COURSES

- Data Structures and Algorithms
- Object Oriented Design and Analysis
- Operating Systems
- Software Engineering
- Computer Organization and Architecture
- Computer Networks
- Compiler Design
- Principles of Database systems
- Algorithms Design and Analysis
- Theory of Computation
- Artificial Intelligence

