

Tirth Gajjar

You can reach me here

About me

- Microsoft Certified Professional
- Microsoft Certified Solutions Associate
- A Proud DA-IICTian



11blackspiders@gmail.com



+91 85 114 55160



Gandhinagar, Gujarat.

Current City: Mumbai, Maharashtra.

Education



Dhirubhai Ambani Institute of Information and Communication Technology
Gandhinagar

B. Tech in Information and Communication Technology

2013 – 2017

CPI/CGPA: 6.33



Ved International School
Gandhinagar

Higher Secondary Certification

Semester 3 & 4

2012 – 2013

Score: 79.60%



School of Achiever
Gandhinagar

Higher Secondary Certification

Semester 1 & 2

2011 – 2012

Score: 79.60%



Shree Swaminarayan Gurukul
Gandhinagar

Secondary School Certification

2010 – 2011

Score: 90.40%

Certifications

Microsoft Certified Professional

March 2017

MCID: 14244785

Microsoft Certified Solutions Associate

April 2017

MCID: 14244785

Technical Skills

Areas of Interest :	Machine Learning, Data Mining, Statistical Algorithms, Design Patterns, Software Engineering, Algorithms, Data Structures, Functional Programming, User Experience, functional Programming.
Programming Languages:	Java, C#, C
Programming Scripts:	JavaScript, Python
Technologies:	Microsoft Power BI, Android, Selenium Automation, .NET Framework , Anaconda Package, NumPy
Tools:	SQL Server Management Studio, SQL Server Integration Services, Microsoft Power BI, Visual Studio 2017, Eclipse, Visual Studio Team Services, GIT, Postman, IPython notebook, Android Studio, Microsoft Office 365, Sublime text, notepad++, JS Lint, ES Lint, JS Hint, Poorman's SQL
Software Development Skills	KISS, YAGNI, SOC, DRY, CI, Pair-Programming

Internships

MAQ Software

B. TECH Final Year Project

As a part of my B. Tech Final Year Project, I am doing a full-time internship at MAQ Software, Mumbai.

January 2017 – July 2017

Project:

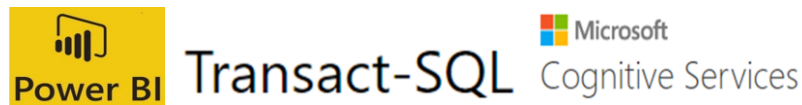
Cannot disclose.

Project Area:

Business Intelligence, Artificial Intelligence, Web Development, Testing, Framework Development

Technologies Used:

T-SQL, HTML5, CSS3, JavaScript ES6, Typescript, Node.js, C#, Selenium Framework 3.3, Microsoft Power BI



Summer Research Internship

As a part of my summer internship at DA-IICT, I did an eight-week internship in DA-IICT, Gandhinagar.

January 2017 – July 2017

Problem statement:

Identify a case where a software system can improve the academic environment in DA-IICT and build that software solution.

Solution:

We created an Algorithm which can help in creating course slot structure for academic semesters, created a user-friendly website and extended that solution to create Time-Tables.

Technologies Used:

HTML5, CSS3, Node.js, MongoDB





Rural Internship

As a part of rural internship program at DA-IICT, I did a four-week internship in a remote village named Chasvad in a Krushi Vigyan Kendra.

December 2014

Details:

The goal was to stay in a rural area and see how rural life is being impacted with newer technologies and observe what problems are there, while implementing those technologies, in that area. We needed to identify problems and give a solution to that problem using the technologies with know.

As a part of this, we digitized the survey analysis process using Google Forms and Google analytics.

Projects

TLI Reporting

Duration: January 2017 -
In progress.

Role: Developer

Team Size: 3

Technologies / Languages:

T-SQL, JavaScript, JQuery, HTML5, CSS3, SSIS,
Azure web CDN

Tools:

Azure storage Explorer, SQL Server Management Studio, SQL server Integration
services, Visual Studio, Visual studio team services.

Description:

This is my current project at MAQ Software, this is a Microsoft's project in which we get data from BMX DW, apply business logic and share the reports through a SharePoint website which is used by Microsoft sales employees. TLI stands for Transformational Leading Indicators, these are the metrics using which Microsoft employees know what how their products are performing in the market.

Power BI Validation Framework

Duration: February 2017 -
May 2017

Role: Software Architect, Developer.

Team Size: 2

Technologies / Languages:

C#, Selenium Automation Framework, T-SQL, SSIS

Tools:

Visual studio, Visual Studio Team Services, Power BI

Description:

This is one of the initiatives at MAQ Software in which I heavily worked on, This is a validation framework created using Selenium automation framework to validate Power BI report with the source data. Power BI reports are published after long running ETL Processes of SSIS, These processes might fail at some point and the data might not get refreshed correctly. To validate that the data represented in Power BI reports is latest and valid, this framework comes really handy. This tool was made quarterly priority initiative for all BI projects of MAQ Software which uses Power BI as a reporting medium.

Analysis of US death record

Duration: October 2016 -
November 2016

Role: Data Analyst

Team Size: 4

Technologies / Languages:

NumPy, Pandas.

To Know More:

[Link](#)

Tools:

IPython Notebook, Anaconda Package

Description:

Every year the CDC releases the United States' most detailed report on death in the United States under the National Vital Statistics Systems. The mortality dataset used in this project was a record of every death in the country for the year 2014. In this project, we normalized, wrangled and explored this database and tried to answer some critical questions about health, common habits, suicidal tendencies, most dangerous diseases.

Labor Market – Android Application

Duration: January 2016 –
May 2016

Role: Lead Programmer, Android Developer, Database Designer

Team Size: 9

Technologies / Languages:

Android, PHP, RESTful Services, MySQL

To Know More:

[Link](#)

Tools:

Android Studio, Notepad++, Postman, phpMyAdmin

Description:

In rural internship, we have seen how village laborers faces problems in getting work and even some farmers face problems hiring someone with skills he requires. so, the team decided to make an android application that helps both laborers and hirers to make their tasks easy of hiring and getting hired. This was really a big project and the team worked under a lot of pressure. We approached people from laborers to lawyers to gain understanding about how things work between laborers and contractors. We also met, expert builders.

We Bicycle – Android Application

Duration: 2 days

Role: Application Developer

Individual

Technologies / Languages:

Android, PHP, RESTful Services, MySQL, Google Maps API

Tools:

Android Studio, Notepad++, Postman, phpMyAdmin

Description:

Recently my city Gandhinagar has been provided with free bicycling service, users can rent a bicycle using their ID proof and they will have to return it in 5 hours or so, users can keep it for more time but it charges 10 rupees/hour. I designed an application using which users can rent bicycle online and they get notified when, it time to return the bicycle. There are many problems which exists in current system, which I can be removed by my application. I just got an idea and created an app for this.

To Know More:

[Link](#)

Studying the causes of stress on students of DAIICT

Duration: January 2016 – May 2016

Role: Website developer, Researcher

Team Size: 4

Technologies / Languages:

HTML, CSS, JS

To Know More:

[Link](#)

Description:

We studied why and when students of DAIICT gets stressed via surveys and performing [Electroencephalography](#) on few volunteers who were students of DA-IICT. The results were matching with current scenario and they were submitted to Dean along with a report. The team was advised to write a paper on our study with much research and told that he would like to publish it. We also created a static website to show the reports.

Smart Bicycling Assistant

Duration: October 2015 – November 2015

Role: Team Leader, Lead Programmer

Individual

Technologies / Languages:

Python

To Know More:

[Link](#)


Tools:

Raspberry Pi Model B, Xtrinsic-sensor-board, Magnets, Hall-Effect sensors

Description:

In this project, we created a tool using raspberry pi model B and few magnets. The user just need to plug his/her android device to raspberry pi using a USB cable and attach this whole to a bicycle which is easy, so this was portable and can be attached with any bicycle. This tool helps maintaining physical fitness, it can also help athletes with their training, with very few improvements.

Position of Responsibility



Project Manager of a Software developer team of 10 people from IIIT Baroda	July 2016 – November 2016
Application Designer, Labor Market Application	January 2016 – May 2016
Programming Team Head, Labor Market Application	January 2016 – May 2016
Representative of student Community, Topics in Medical Electronics	January 2016 – May 2016
Representative of student Community, EBM	July 2015 – December 2015
Project Leader, Embedded Hardware Design Project	July 2015 – December 2015
I.Fest'13 Volunteer	October 2013

Areas of Interest and Hobbies



Reinforcement Learning, Machine Learning.

Reading on Quora.

Watching science videos on YouTube channels, like Vsauce, Veritasium, minute Earth, minute Physics.

Tweaking my android phone and my personal computer.

Rooting android devices and make them better, and more featured.

Playing table tennis

Playing mobile games

Watching sci-fi/comedy/ super-hero/ Political drama TV series and movies