

RAHUL TIWARI

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OBJECTIVE

To achieve great practical skills through a continuous learning process and keep myself dynamic, visionary and competitive with the changing scenario of the world.

INTERNSHIP EXPERIENCE

Place : CubExinfo, Nadiad

Project Title : Bakeology Bakery website (Laravel framework)

Project Guide : Mrs. Kinnari Prajapati

Duration : 4 Weeks (20st May'19 to 21th June'19)

Place : CubExinfo, Nadiad

Project Title : JB Studios website (PHP MVC Architecture)

Project Guide : Miss Bijal Brahmhatt

Duration : 4 Weeks (14th May'18 to 13th June'18)

EDUCATION

Degree/ Examination	School/College	Board/ University	Year of Passing	Percentage/ CGPA
B.Tech (I.T.)	Chandubhai S. Patel Institute of Technology, Changa	CHARUSAT University	2020	8.78
XII	New English School, Nadiad	G.H.S.E.B	2016	80.8%
X	English Teaching School, Nadiad	G.S.E.B	2014	89.33%

PROJECTS UNDERTAKEN

Home Automation Using IoT

July 2019 – November 2019 (Sem-7)

Hardware: ESP32, AC bulb, relay module

Software : Arduino-IDE, Adafruit IO, IFTTT

Project Summary

- ❖ It is a prototype that controls home appliances (bulb, table-fan) through voice command over Google assistant.
- ❖ Voice command is sent through Google assistant, which is detected by IFTTT platform, which in response alters topic variable's value in Adafruit IO, a MQTT broker.
- ❖ ESP32 acts as a subscriber of same topic and checks the value from Adafruit IO and sets corresponding electric signals to home appliances.

Bakeology Bakery Website using Laravel framework

May 2019 – June 2019 (Sem-7 Summer Internship)

Software : XAMPP(Apache Server, MySQL, PHP), Laravel framework, Visual Studio code.

Project Summary

- ❖ A dynamic web application for a bakery shop to purchase bakery items online.
- ❖ User can sign up, add products to cart and place order. Admin gets an e-mail of order summary.
- ❖ Also there is an Admin panel to add/remove products from main website and it also shows customer details and orders.

Facial Recognition Attendance System

January 2019 – March 2019 (Sem-6)

Hardware: a high resolution camera (Laptop camera used here)

Software : JetBrains PyCharm, Python, OpenCV, tkinter

Project Summary

- ❖ It recognizes and detects students' face and marks attendance in a spread sheet.
- ❖ Local Binary Pattern Histogram (LBPH) Algorithm is used for facial recognition.
- ❖ Tkinter is used to provide a GUI.

Efficient fire detection system using FOG computing

July 2018 – November 2018 (Sem-5)

Hardware: Raspberry Pi 3 B+, flame sensor, buzzers

Software : Python, AWS

Project Summary

- ❖ The main aim of this project was to point out the drawbacks of using cloud computing in IoT applications, mainly the latency.
- ❖ Hence, to provide a better solution using the computation power of edge devices for real time problems which require quick response with no latency, like fire detection, I have used the concept of FOG computing.
- ❖ Latency for both cloud computing and FOG computing is compared here.
- ❖ For cloud, IoT core service of AWS was used with MQTT protocol.

JB Studios (photographer's) website using PHP MVC architecture

May 2018 – June 2018 (Sem-5 Summer Internship)

Software : XAMPP(Apache Server, MySQL, PHP), Netbeans IDE

Project Summary

- ❖ It is a dynamic website for photographer, to reflect his photography skills online.
- ❖ Also the customers can login and view all the pictures clicked by the photographer in their individual accounts.
- ❖ An admin panel has been created, using which photographer can view and edit the pictures to be displayed on the main website. He can also upload clicked pictures of customers (in the studio) in their individual accounts.

Working on TFT LCD screen with Arduino

July 2017 – November 2017 (Sem-3)

Hardware: Arduino UNO, TFT LCD screen

Software : Arduino-IDE

Project Summary

- ❖ Learnt Arduino board and programming in Arduino IDE.
- ❖ Initially, explored TFT LED screen, printed messages on the screen with different colours and added buttons.
- ❖ Finally, created a mini calculator on the TFT LED screen.

TECHNICAL SKILLS

- ❖ **Language Known** : C, C++, Java, Python, PHP, Java Script, HTML, CSS, JQuery.
- ❖ **Operating Systems** : Windows, Ubuntu Linux, Kali Linux (basics).
- ❖ **Software Tools** : Cisco Packet Tracer, Netbeans IDE, Arduino IDE, MS SQL server, MATLAB, Google Colab, Android Studio, XAMPP, WAMP, AWS (basics).
- ❖ **Technologies Known** : Data Science, Machine Learning, Cloud Computing, IoT, Embedded Systems, Computer Networking, Web Development, Android Development, Database Management System.
- ❖ **Hardware Known** : Arduino, ESP32, Raspberry Pi.

CO-CURRICULAR ACTIVITIES

- ❖ Participated in “**AWS Cloud Services & Infrastructure**” workshop by CHARUSAT (Cognizance 2018).
- ❖ “**CCNA Module-1**” certified.
- ❖ Participated in 6 days workshop on “**Android App Development with Kotlin Programming Language**” (ACM CHARUSAT student chapter).
- ❖ Participated in “**Programmers Date**” technical event by CHARUSAT (Cognizance 2017).
- ❖ Participated in “**Mobile App Mock-up**” technical event by CHARUSAT (Cognizance 2017).
- ❖ Participated in “**Codechef coding contest**” by CHARUSAT Codechef Chapter.
- ❖ Member at **Association for Computing Machinery (ACM)**.
- ❖ Member at **Computer Society of India (CSI)**.

PERSONAL DETAILS

- ❖ **Birth Date** : 20th October 1998
- ❖ **Gender** : Male
- ❖ **Marital Status** : Single

DECLARATION

I hereby declare that above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the mentioned particulars.