Yatrik Patel

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# SKILLS

**Programming and Scripting Languages:** Java, Python, C++, JavaScript, NodeJS, PHP, HTML, CSS.

**Big data Ecosystem:** Hadoop, MapReduce, Hive, Spark.

**Frameworks:** Laravel, Bootstrap.

**Database:** SQL, MySQL, Firebase.

**Operating Systems:** Windows, OS X, Linux.

**Technologies and Libraries:** Android Studio, Arduino, Raspberry Pi, Visual Studio, Sublime, PyCharm, ReactJS.

**Others:** Data Structures, Algorithms, Object Oriented Design, IOT, Distributed Systems, Networking, .NET, MS Office.

# EDUCATION

**Master of Science**, Computer Science Jan 2021 – Dec 2022

The University of Texas at Arlington

**Bachelor of Technology**, Computer Science Jun 2016 – Jul 2020

Sankalchand Patel University

# EXPERIENCE

**Android App Development Intern**, Metizsoft Solutions Private Limited, Gujarat Nov 2018 - Dec 2018

* Worked Collaboratory in a team of 8 and worked on project module.
* Developed an UI for dashboard, backend for login database and dashboard for user and admin.
* Implemented geofencing for push notification using firebase.

**.Net Technology Intern,** WayToWeb, Gujarat May 2018

* Get trained for basics and worked as assistant on live project.

# PROJECTS

**Immigration Portal (JavaScript, HTML, CSS, PHP, MySQL, Laravel, NodeJS, ReactJS)**

* It will be helpful to various immigrants and visitors who wants to travel to foreign countries due to several reasons.
* Created a dynamic and analytical UI, designed a dashboard, determined backend data display and added a chat feature, blog and media sharing platform.
* User will get all the details of destination country, can read experiences shared by others and interact with them.

**Twitter data analysis (Java, Hadoop MapReduce, Scala, Spark, Pig, Hive)**

* Analyzed a twitter data effectively with 1 million nodes using Hadoop MapReduce and Apache Spark.
* iPhone Commerce DBMS (Python, MySQL)
* Developed an DBMS to keep track of sales and supply of iPhones at stores and online, expanded the scope by deploying rating system for employees which will result in increasing sales.
* Upgraded the system to meet the various business goals.

**Brian wave controller (Android Application, Machine learning, Data Processing)**

* Using the module, one will be able to control the prosthetic hand limb and many other activities by Brain waves, and data will be processed to perform the specific action.
* I used machine learning for training the module and data processing for converting raw data into a meaningful signal.

**Wireless biometric lock (Kodular App, IOT)**

* One can unlock the lock through mobile’s fingerprint sensor of mobile and a Kodular app has been made for this task.
* Created a module using Arduino which will connect through Bluetooth and can control the lock using mobile.

**Music and mood reactive led light system (Android Application, IOT)**

* We have made a combined module of mood and music reactive LED light system, which will react to people's mood to improve their mood by dynamic lights. The LED will also react to music and can be connected to smart speakers.
* Created a module using Arduino and led lights.

**Music player (Android Application)**

* This music player app made in Android and had some exclusive features like onscreen volume control, editing of the song, etc. that is not available in currently available music player apps.
* Developed a customized UI where user can choose which features, they want.

**Image Puzzle (HTML, CSS, Canvas)**

* Adding images, one can create a personalized image puzzle.
* It's an HTML and CSS based software and canvas is used for moving the tiles of images.

# EXTRACURRICULAR

* Received a registration grant of INR 200,000 for Student Start-Up Innovation Program 2019 for Brian wave controller using Machine Learning and data processing.
* I have been a member of NSS (National Service Scheme). I was involved in health and awareness camps in various villages and helped conduct cultural activities.
* I have participated and coordinated few of the technical and cultural events like Technigma (2018), FootprintzX9 (2019) and Gujarat Science Carnival (2018).