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 on project module. Involved with all phases of mobile app development from initial concepts, through design, development, testing and deployment.
* Developed an UI for dashboard, backend for login database and dashboard for user and admin. Implemented geofencing for push notification using firebase.
* Utilized agile development methodology

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

* Worked as assistant on live project. Established compatibility with third party software products by developing program for modification and integration.
* Developed and implemented complex Internet and Intranet applications on multiple platforms.
* Coordinated with systems partners to finalize designs and confirm requirements.

**Java Junior Software Developer,** Nextgen Software Solution, Ahmedabad Jun 2018 – Jul 2018

* Collaborated with other developers on designing, developing, testing, and implementing new JSP pages, HTML pages, and Servlets. Developed databases and original eye-catching user interfaces
* Configured and updated company JMS server. Maintained company website and using own knowledge and experience resolved any problematic issues.
* Provided web support and beneficial advice to clients.

# 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.

**IMDB movie analysis (Java, Hadoop MapReduce)**

* Modified a traditional algorithm with an algorithm that runs in a distributed manner to achieve better performance.
* The algorithm processed data with nearly 10 million rows Reduced the run-time by 10% using local combiner.

**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 attended workshops on Machine Learning and Artificial Intelligence by Google Developers and a workshop on Arduino and its applications.
* I have taken part in a few National Seminars on "Machine Learning and Deep Learning in Image Processing: Techniques, Tools and Trends" and on "Recent Trends and Awareness On Cyber Security".
* I have also attended a Conference on "Connecting Inventors, Innovators, Incubators and Investors for Accelerating the Growth of Start-ups" organized by National Research Development Corporation (NRDC).