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## YATRIK PATEL

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### SKILLS

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

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

**Frameworks:** Laravel, Bootstrap, React.js, Node.js, .NET

**Database:** SQL, MySQL, Firebase

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

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

**Others:** Data Structures, Algorithms, Object Oriented Design, IoT, Distributed Systems, Networking, MS Office

### EDUCATION

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**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

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**Android App Development Intern**, Metizsoft Solutions Private Limited

Aug 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

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

Jan 2019 – Jul 2019

- 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

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**Immigration Portal (JavaScript, HTML, CSS, PHP, MySQL, Laravel, Node.js, React.js)**

- Created a Full Stack Immigration Portal which mainly assists Immigrants and visitors, also it makes efficient for administration to manage.
- Created a dynamic and analytical UI, designed a dashboard, determined backend data display and added a chat feature, blog and media sharing platform.
- The Front-end was designed using HTML, CSS and JavaScript, which was later converted to React.js. The Backend was managed using PHP, which was later converted to MVC architecture using Laravel.
- Chat was made using Node.js, database was stored and managed using MySQL. Also, Blog was made using WordPress.

**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.
- Implemented a Graph analysis program using Map-Reduce and Pregel on Spark GraphX.

- Performed various queries to data stored in different databases on Hive and using Pig.

#### **iPhone Commerce DBMS (Java, MySQL)**

- Developed an Extended Entity-Relationship (EER) diagram from the problem statement, mapped the EER to relational schemas and normalized the resulting relations to Boyce-Codd normal form (BCNF).
- Transformed the relations into tables in a Relational database management system (RDBMS) by using DDL and DML.
- Constructed complex SQL ad-hoc queries to satisfy the business requirements presented in the problem statement.
- Developed a front-end application using Java and JDBC that interfaces with the DBMS at the backend.

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

- The project works on electroencephalogram (EEG), and the primary purpose of the sub-applications is to work as an interface between the user and the machine.
- The headset measures the frequency of signals generated by the brain, sends it to our custom-made application, and processes it using machine learning algorithms. Using data processing technology, the data is then fetched by different modules, and as a result, the desired work is done.
- I also Received a registration grant of INR 200,000 for Student Start-Up Innovation Program 2019 for this project.

#### **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.