

# Akhilesh Jichkar

COMPUTER SCIENCE GRADUATE STUDENT AT SJSU

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## Education

**San Jose State University** | **SAN JOSE, CA**

*Exp. May 2019*

MASTER OF SCIENCE IN COMPUTER SCIENCE

**Shri Ramdeobaba College of Engineering and Management** | **NAGPUR, INDIA**

*May 2017*

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND ENGINEERING

## Skills

- **LANGUAGES:** Java, Python, C++, C#, SQL, R, LaTeX, UML
- **WEB:** JavaScript, ASP.NET, NodeJS, PHP, CSS
- **GRAPHICS:** OpenFrameworks, WebGL, Photoshop
- **DATA ANALYTICS:** Tableau, MicroStrategy, Weka, Orange
- **TOOLS:** TensorFlow, Keras, Hadoop, Spark, Android, Git
- **SOFT SKILLS:** Team leader, Initiator, Prolific, Disciplined

## Work Experience

**InfoCepts** | **NAGPUR, INDIA**

*Jan. 2017 - Apr. 2017*

**INTERN - BI DEVELOPMENT MODULE (TABLEAU)**

- Implemented a dashboard to provide insights into the development of 133 countries as per the World Development Report 2014.
- Calculated information gain and chi squared correlation to find the most relevant attributes from over 200 attributes.
- Performed ETL preprocessing in Excel, and executed complex SQL queries in MS-SQL to create a dashboard in Tableau.

**InfoCepts** | **NAGPUR, INDIA**

*May 2016 - Aug. 2016*

**INTERN - MICROSTRATEGY DEVELOPER**

- Implemented a dashboard to derive insights from the crime statistics in the USA between the years 2012 to 2014.
- Led a team of five effectively to create Logical and Physical data models, and created dashboards from the generated reports.
- Set up the MicroStrategy Server using Apache Tomcat to establish the connection between MS-SQL and MicroStrategy.

**ADCC Infocad** | **NAGPUR, INDIA**

*Jun. 2015*

**INTERN - ANDROID DEVELOPER**

- Implemented a Library Management System consisting of a database server and an Android application from scratch.
- Developed an autonomous system which scanned QR codes for faster checkout of library books.
- Effectively built a system using RestAPI to communicate between the Android application and MS-SQL database using JSON.

## Projects

**Lyrvana- Music Search Application**

**TOOLS:** ELASTICSEARCH, JAVASCRIPT, PYTHON, PHP, CURL

- Created a lyrics based music search engine using Elasticsearch, enabling users to find the lyrics for their favorite songs.
- Performed web-scraping, data ingestion using elasticsearch and beautifulsoap libraries to create indices in the Elasticsearch cluster.
- Developed the frontend using JavaScript and CURL to query the Elasticsearch cluster, significantly reducing query response time.

**Intelligent Mobility Aid for the Visually Impaired**

**TOOLS:** TENSORFLOW, ANDROID, PYTHON, DOCKER

- Implemented an Android application to help visually impaired users navigate the streets by using an Android smart phone.
- Trained the application to detect common obstacles in real time with 92.15% accuracy and alert the user via auditory feedback.

**Health Insurance Premium Calculator**

**TOOLS:** R, JAVASCRIPT, PHP, MYSQL

- Implemented a health risk prediction agent, which assesses the user's health and to calculate the user's health insurance premium.
- Developed a server which periodically takes input from a fitness band to monitor user activities and generate a model using logistic regression in R and display the result in a website designed using JavaScript, PHP and MySQL.

**SYMACO- Content Management System**

**TOOLS:** ASP.NET MVC, C#, MS-SQL, JAVASCRIPT, OAUTH, CSS

- Implemented a Content Management System which allows users to create their own website and/or blog site.
- Effectively led a team of five to develop a WYSIWIG functionality, while researching and implementing the best methods for CMS.
- Designed numerous website template plugins for the users to choose to publish content on their website/blog site.

**Get Fit Android App**

**TOOLS:** ANDROID, JAVA, SQLITE, REMOTE SERVICE, CONTENT PROVIDER, SENSORS

- Developed an Android app that utilizes Android's Step Counter, Remote Service and Content Provider to monitor user workout.
- Integrated a map view which uses GPS to access user location and draws the path taken by the user during the current workout.
- Calculated calories and distance and plotted these values in real time, while also giving a daily, weekly and all-time summary.

**Meal Manager Android App**

**TOOLS:** ANDROID, JAVA, RXJAVA, ROOM, SCHEDULERS, FRAGMENTS

- Created an Android app that keeps track of user's meals and recipes by persisting recipe data using Room Library and RxJava.
- Designed the Data Access Object model to communicate with Room, and Schedulers were used for working on background threads.