

DIKSHALI BHIKAJI MARGAJ

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EXPERTISE AND SKILLS

Programming languages: Java 8, Android, Python 3, C++, Spring MVC

Web Technologies: HTML5, CSS 3, Bootstrap, JavaScript, AngularJS-1, Node.js, Express.js

Cloud Platform: Amazon Web Service (AWS), Cloudera

Version control: GitHub, Bitbucket, TortoiseSVN, Team Foundation Server (TFS)

Databases: MongoDB, MSSQL, PostgreSQL, Google Firebase, MySQL

Operating System: Windows, Linux

EDUCATION

Master of Science in Computer Science University of North Carolina at Charlotte, Charlotte, NC (GPA - 4.0)	May 2020
Bachelor of Engineering in Information Technology University of Mumbai, Mumbai, India (Percentage - 72.30%)	May 2015

WORK EXPERIENCE

TimeTap, Charlotte, NC | Software Development Intern **Jul 2019 – Present**

- Worked as a backend developer to build Time Scheduling Software using **Java 8, Spring MVC and AWS**. This program allows businesses to manage appointments and create personalized custom booking site for their clients.
- Created **RESTful API** services for functionality like custom fields to get more client details in **Java and Spring MVC**.
- Developed functionalities like create appointment for Backoffice in **Android (Java)** application, thus bringing up the rating to **2.8** in play store with more than 1000 downloads.

Tata Consultancy Services, Mumbai, India | Software Engineer **Aug 2015 – Jun 2018**

- Developed a full stack application for sales team of the company using **HTML5, CSS 3, AngularJS-1, Java 8, Maven 3, Spring MVC** Framework and **PostgreSQL** with Agile methodology. The program enabled sales user to log the opportunities and offerings for the company and monitor the revenue generated from it.
- Managed local team for creating and consuming RESTful API services for functionality like search, mail notification, file upload and download, etc. in **Java, Spring MVC** which amplified satisfactory index of application by 30%.
- Optimized load time from **6s to 1s** by minimizing HTTP requests, implementing CSS sprites, applying gzip compression at the server, minifying the **JavaScript** and **CSS** reference files and loading the JavaScript & CSS files asynchronously.
- Implemented test suites using **JUnit** Test Case classes to test each module and inspect the business logic. Performed security checks through Checkmarx and SonarQube on DEV and UAT environments to resolve security glitches and to improve code quality.
- Awarded as **“Best Team”** in July 2017 for continuous defect free delivery of the software.

Bhabha Atomic Research Center (BARC), Mumbai, India | Software Intern **Jul 2014 - Apr 2015**

- Designed a Simulator for Advance Heavy Water Reactor to detect signals from the self-powered neutron detector (SPND) and modeled a corresponding 3D Flux map. This software helped client achieve and monitor the results of the actual reactor.
- Performed requirement gathering and feasibility analysis by interacting with clients and accordingly built simulator in Borland C++ Builder. Tested functionality manually to inspect the correct functionality and validate against the desired output.

PROJECTS

Smart Bluetooth Market Place [[GitHub link](#)] (**Stripe, Estimote SDK, Android, Java, Node.js, MongoDB, Heroku**) **Oct 2019**

- Developed a Bluetooth enabled Android app where user can find all products for the aisle closest to user using **Estimote Bluetooth Beacons**. The App is integrated with **Stripe payment** system to buy the products and generate the invoice for the user.

Package Tracking System [[GitHub link](#)] (**Java, MySQL, Java Applet, Multithreading**) **Oct 2019**

- Built a system where user sends a package from one place to another and will be able to track in the system by entering the tracking number. Threads are used for package creation and Dijkstra's algorithm calculated shortest path between source and destination.

E-Commerce App [[GitHub link](#)] (**Braintree, Android, Java, Node.js, MongoDB, Heroku, JWT token**) **Sept 2019**

- Developed an e-commerce android app where logged in user can buy products with **Braintree** payment system. JWT tokens are used to validate user authorization in the server.

Chat Room App [[GitHub link](#)] (**Android, Java, Google Firebase, Google Maps, Google Direction API**) **Aug 2019**

- Built a Chatroom android app where user can join a group and chat with the members of the group. User can also request for ride in the group. Used Google Maps to synchronize driver and rider's live location in real time.

Customer Retention Prediction using Machine Learning [[GitHub link](#)] (**Python**) **Jan 2019**

- Built an algorithm in python that can predict factors that impact customer retention by applying Machine learning concepts. Telecom Customer churn dataset provided by Kaggle is analyzed in this project.

Travel Website [[GitHub link](#)] (**HTML5, Node.js, JavaScript, CSS, MongoDB**) **Jan 2019**

- Designed a website to plan a perfect holiday where user can look around the world's best tourist places. Developed API's to demonstrate Node.js concept and stored data in MongoDB.

Trip Planner [[GitHub link](#)] (**Android, Google places API, Firebase**) **Oct 2018**

- Developed a trip planner app with Google Authentication where user selects a city and its nearby restaurants from Google API. A trip map of all the selected restaurants is generated using Google direction API.

N-Queen Problem Solver (Java) **Sept 2018**

- Developed an efficient solution generator for a variation of N-queen puzzle involving variety of constraints by implementing A* search and Hill Climbing Search with custom heuristic in Java.