**DIKSHALI BHIKAJI MARGAJ**

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**Experienced Software Engineer**

Three years of industry experience as a Software Engineer. At TCS, boosted number of end users by 70% and improved application performance and code efficiency. Developed robust code by adhering to the project guidelines. Strong in Problem Solving, Algorithms and Data Structure and OOPS concept. Familiar with Agile methodology and Continuous Integration and Continuous Deployment.

# EDUCATION

**Master of Science in Computer Science |** University of North Carolina at Charlotte, Charlotte, NC (**GPA - 4.0**) **May 2020**

Courses**:** Algorithms and Data Structures, Intelligent Systems, Mobile Application Development, Machine Learning, Network-Based Application Development, Cloud Computing for Data Analysis

**Bachelor of Engineering in Information Technology |** University of Mumbai, Mumbai, India (**Percentage - 72.30%**) **May 2015**

# TECHNICAL SKILL

**Programming languages:** Java, Android, Python, C++

**Web Technologies:** HTML, CSS, Bootstrap, JavaScript, AngularJS, Node.js

**Cloud Platform:** Amazon Web Service (AWS), Cloudera

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

**Databases:** MongoDB, MSSQL, PostgreSQL

**Testing Tools:** JUnit

**Operating System:** Windows, Linux

**GitHub:** https://github.com/Dikshali

# WORK EXPERIENCE

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

* Developed a full stack application for sales team of the company using HTML, CSS and AngularJS, Java, Maven, Spring MVC Framework and PostgreSQL with Agile methodology. The application 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. which amplified satisfactory index of application by 30%.
* Implemented test suites using JUnit Test Case classes to test each module and inspect the business logic. Performed security checks using 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 application.

**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 application helped client achieve and monitor the results of the actual reactor.
* Performed requirement gathering and feasibility analysis by interacting with clients and accordingly built application using Borland C++ Builder.
* Tested application manually to inspect the correct functionality and validate against the desired output.

# PROJECTS

**Customer Retention Prediction using Machine Learning (Python) Jan 2019 – Present**

* Building 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 Web Application (HTML, Node.js, JavaScript, CSS, MongoDB) Jan 2019 – Present**

* Designing a web application to demonstrate Node.js concept.

**Mobile Application for Trip Planning (Android, Google places API, Firebase) Aug 2018 - Dec 2018**

* Developed and designed trip planner using Google Authentication where user selected a city and its nearby restaurants from Google API as well as generated a trip map of all the selected restaurants.

**N-Queen Problem solver (Java) Aug 2018 – Dec 2018**

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

**Scudzap | URL: http://scudzap.com/ (ASP.NET and C#) Sept 2017 – Dec 2017**

* Scudzap is a consultancy whose mission is to help and make individuals aware about various certification and opportunities industries has in various domains and build their careers. Built web application through which the team were able to amplify number of customers online.

**Flight Booking System (Java, HTML, CSS, MSSQL)** **Aug 2012 - May 2014**

* Constructed a full-stack web application to facilitate flight bookings, displayed trends and estimated revenue analysis.

# ACTIVITIES

* Join Secretary of Computer Society of India : Lead a team of 50 students and organized technical fest Tantra 2014.
* Worked as Editor in Magazine Department for Fusion 2013.
* Volunteered for Akanksha Foundation NGO where free education was provided to underprivileged children in 2013.