

# Nikhil Bhutani

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## Education

### University of San Francisco

MASTERS OF SCIENCE IN COMPUTER SCIENCE; GPA: 4.0/4.0

San Francisco, CA

Aug. 2019 – Dec. 2021(Expected)

### People's Education Society Institute of Technology

BACHELORS OF ENGINEERING IN TELECOMMUNICATION; GPA: 6.78/10

Bangalore, India

Aug. 2009 – Jun. 2013

## Technical Skills

### Programming Languages

Java, C#, C, Groovy, Python

### Web Development Technologies

HTML/JSP, CSS(Bootstrap), Javascript/jQuery(Node/React/Angular/Vue), AJAX, Template Engines(JSTL/Velocity/Razor), ASP.Net(MVC, Core, Web Forms), Java/Jetty Servlets, Webservices(Rest API, SOAP, Micronaut), ORM Frameworks(Ado.Net, Entity Framework, Hibernate, JDBC, GORM)

### DBMS

SQL Server, MySQL, PostgreSQL

### Big Data/Cloud

Apache Spark, Apache Beam SDK, Elasticsearch, Google Cloud Platform including data flow and Big query, AWS, Pubsub

### AI/ML Libraries

NLTK, Pomegranate, TensorFlow, Numpy

### Platform / Tools

Tableau, Microsoft Visual Studio, SQL Server Management Studio, Postman, IntelliJ/PyCharm, Jupyter Notebook, Docker and GitHub

### Others

Jenkins, Gradle, Maven, IIS, Github Actions, Terraform

## Internships

### Cardea Bio

San Diego, CA, USA

SOFTWARE DEVELOPMENT INTERN

May. 2021 - Aug. 2021

- Designed and Deployed a headless web service in Asp.Net Core that launches and kills an application programmatically
- added new controls to the asp.net core web forms as per the business requirements
- Introduced microservices that enables the robots to perform additional set of operations using these services
- Created and managed an AWS RDS production grade database server

### Openprise

San Francisco, CA, USA

SOFTWARE DEVELOPMENT INTERN

May. 2020 - Aug. 2020

- Wrote ETL(Extract, Transform & Load) pipelines & microservices to ingest, transform and store data of 1M records for further analysis using Groovy, Micronaut, Spark and Elasticsearch
- Designed and developed a Spark cluster manager microservice which provides an on demand features such as adding, destroying, scaling, deploying and monitoring the Spark clusters on the cloud(AWS)
- Implemented CI/CD as a part of the project using Github Actions and docker

## Work Experience

### Silicus Technologies

Pune, MH, India

SENIOR SOFTWARE ENGINEER

Apr. 2018 - July. 2019

- Designed and developed a HIPAA/HITECH complaint web application for US client "FormFire" which records the medical history of patients. The website was designed using C#, ASP.NET MVC4 Razor View Engine, Javascript, JSON/XML, Hibernate, AJAX and jQuery
- Developed rigorous test cases using NUnit and deployed the application in IIS
- Created a windows service using ASP.net Core which is used to send customized emails to clients/in-house newsletters and invitations for distribution

### Musafir.com India Pvt. Ltd.(Contract based)

Pune, MH, India

SENIOR SOFTWARE ENGINEER

Oct. 2017 - Mar. 2018

- Lead a team of 3 developers in API team and developed restful Web APIs to transmit JSON data over HTTP
- consumed the third party APIs to asynchronously fetch flight related itinerary from different providers and integrate it with the website

### Cognizant Technology Solutions

Pune, MH, India

ASSOCIATE SOFTWARE ENGINEER

Oct. 2013 - Sept. 2017

- Worked for 3 different US clients Wells Fargo, One West Bank and City National Bank
- Wells Fargo(Portfolio Management Portal): Worked in a team of 3 developers to migrate the existing web application(Rainbow framework) to MVC framework
- One West Bank(Online Account Opening Portal): Developed components of SPA with Angular 1.x, leading to 30% faster page load time, improving the product quality by a factor of 10
- City National Bank(Online Banking Portal): Maintained an online banking portal in a team of 5 which is used for accessing different types of services like Deposits, Loans, Credit Cards, Brokerage and Money Market Transfers and Trust and Investments
- Designed database on SQL Server 2016 and development of different database objects such as functions, triggers, stored procedures

# Academic Projects

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## Spell Checker

Java

Implemented a Dictionary ADT with extra functionality of being able to find the closest entries in the dictionary to the given invalid word using compact prefix trees

## Calorie Tracker App

Java, Micronaut, ReactJS, JWT, Bootstrap, Postgresql, Hibernate

Designed a web based application which tracks the daily calorie intake for a user.

## Visualization of San Francisco Crime Dataset

HTML, CSS, D3.js, Tableau

Project aims to analyze crime data in SF and plan for faster responses to incidents and hence reduce the crime-rate

## Steganography

C#, WPF

Hiding image, text, audio or video into another image file and then getting back the original image from the coded one

## ARM Emulator

C, ARM assembly, Raspberry Pi

Designed and implemented a working CPU along with 4 way set associative caching.

## Cloud Deployer

VueJS, Micronaut, Groovy, GORM, AWS, Terraform, Docker, Github

actions, MySQL, JWT

Designed and developed a web application that automates the deployment process.

## Data Analytics using Apache Beam sdk and Dataflow

Protobuf, Dataflow, Big Query, Apache Beam sdk

Designed and developed a batch processing pipeline using dataflow to extract, transform and load the bidlog data into big query for further analysis.