Nikhil Bhutani

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Education

University of San Francisco   San Francisco, CA
MASTERS OF SCIENCE IN COMPUTER SCIENCE; **GPA:** 4.0/4.0   *Aug. 2019 – May. 2022*

People's Education Society Institute of Technology   Bangalore, India
BACHELORS OF ENGINEERING IN TELECOMMUNICATION; **GPA:** 6.78/10   *Aug. 2009 – Jun. 2013*

Technical Skills

Programming Languages	Java, C#, C, Groovy, Python, Go
Web Development Technologies	HTML/JSP, CSS(Bootstrap, Material-UI), 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, Elasticsearch, GCP 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, Yarn, Webpack

Internships

SnapLogic   San Mateo, CA, USA
SOFTWARE DEVELOPMENT INTERN   *Sep. 2021 - Dec. 2021*
- Designed and implemented an application around data mesh principles

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 new 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

Distributed Storage and Computation System · **Protobuf, Go**
Designed and coded own distributed file storage system(DFS) with the support for executing MapReduce jobs.

Cloud Deployer · **VueJS, Micronaut, Groovy, GORM, AWS, Terraform, Docker, Github actions, MySQL, JWT**
Designed and developed a web application that automates the deployment process of docker images.

Data Analytics using Apache Beam and GCP Dataflow · **Protobuf, GCP Dataflow, Big Query, Apache Beam, Pubsub**
Designed and developed a batch/stream processing pipeline to extract, transform and load the bidlog data into big query for further analysis.

ARM Emulator · **C, ARM assembly, Raspberry Pi**
Designed and implemented a working CPU along with 4 way set associative caching.

Calorie Tracker App · **Java, Micronaut, ReactJS, JWT, Bootstrap, Postgresql, Hibernate**
Designed a web based application which tracks the daily calorie intake for a user.

Spell Checker using Trie · **Java**
Implemented a Dictionary using Trie data structure with additional functionality of being able to find the closest entries in the dictionary to the given invalid word using compact prefix trees

Visualization of San Francisco Crime Dataset · **HTML, CSS, D3.js, Tableau**
Project aims to analyze SF crime dataset 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