

Kamal Tekwani

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EDUCATION :

University at Buffalo (UB), The State University of New York, Buffalo, New York.

December 2023

Master's in Computer Science and Engineering

Rajasthan Technical University, Jodhpur, Rajasthan, India

June 2017

Bachelor of Technology in Computer Science and Engineering

SKILLS :

- **Languages:** Java, Python, JavaScript, SQL, bash, Solidity
- **Frameworks/Libraries:** Java, Data Structures and Algorithms, Spring MVC, Spring Boot, GraphQL, React, JavaScript, Microservices Architecture, Kubernetes, Docker, Kafka, REST API's, Microsoft Azure and Amazon Cloud Services, Jenkins, Machine Learning Supervised and Unsupervised Learning Models, Blockchain Ethereum
- **Databases/Platforms:** MySQL, Oracle 11g Database, Truffle Suite, Ganache
- **IDE/Tools:** Git, Visual Studio Code, Eclipse, Putty, WinSCP, Remix IDE, MetaMask, IntelliJ IDEA

CERTIFICATIONS :

- **Oracle Certification of Associate Java Programmer 8 (1Z0-808)**
- **Amazon Web Services (AWS) Certified Cloud Practitioner (CLF-C01)**

PROFESSIONAL WORK EXPERIENCE :

Software Development Engineer, Accenture, Mumbai, Maharashtra, India

April 2021 – August 2022

- Led a team of 3 to devise an auto mailer system, accomplishing task 14% faster than expected.
- Developed and maintained user centric web application ensuring adherence to software development lifecycle (SDLC), used by the Financial Institutions having approx. 200K users.
- Refactored and updated old code base to object-oriented design using agile methodology, standard programming principles and advanced frameworks, resulting in a 20% improvement in application performance.
- Collaborated with cross-functional internal team to design and execute CI/CD pipelines using Azure DevOps, resulting in more efficient software releases and faster time-to-market for applications.

Software Engineer, Tata Consultancy Services, Mumbai, Maharashtra, India

March 2018 – March 2021

- Created a web portal that provides a consolidated output of cost and location analysis in turn optimizing process by 40% ensuring scalability and high availability.
- Formulated client web application from scratch, wherein user could pinpoint various locations on map and gain useful insights to generate optimal network infrastructure. Additionally, it also allows user to upload and update business related pricing and location data.
- Managed SOAP and WSDL web services to perform integration between different teams working on different features.

PROJECTS :

Transunion CIBIL Utility API – Bank of America (Tata Consultancy Services, Mumbai)

- Designed and fulfilled an optimized software solution for delivering CIBIL Report to users.
- Applied **Supervised Machine Learning Algorithms** to identify key factors for each individual user to raise CIBIL scores.
- Initiated and composed a smart DApp (Decentralized Blockchain Application), a top layer of security that keeps track of every transaction and offers on customers account on **blockchain ethereum**.
- Enhanced data loading of system by adopting lazy loading in java with hibernate framework and SQL Server.

Offnet Repository System – Verizon (Accenture, Mumbai)

- Devised an enterprise web-based application for offnet users to automate process of handling service providers data such as coverage and pricing files.
- Applied **data pre-processing** and accomplished version control functionality for prices of product services in application for admin users to gain deeper insights.

Feasibility Portal - Verizon (Accenture, Mumbai)

- Established a portal for offnet users of United States to get contract through bidding of RFP orders by help of scheduling algorithms.
- Capability to handle bulk requests and process **concurrently** by reducing latency between multiple requests.
- Integration with Google Address API to discover exact location of user coordinates and nearest Point-of-Presence (POP's), on other hand, implemented algorithm to find shortest path between user locations and nearest POPs.
- Build a **distributed** system which incorporated **continuous integration and continuous delivery pipelines** by seamlessly integrating with Business Process Portal and SFDC for creation of orders and delivery of services.

Credential Authentication System – CredAuthentiFi App

- Crafted a **decentralized** and secure solution for verifying and validating digital credentials.
- Utilized blockchain network to create a **distributed and immutable ledger** for credential transactions.
- Enhanced trust and eliminated the need for intermediaries by leveraging **blockchain technology** through **smart contracts**.
- Supported interoperability with existing systems by adhering to established credentialing standards.

Telecom Customer Churn Prediction – PredApp

- Built a predictive model applying machine learning algorithms, (**Logistic Regression, Decision Trees, Random Forests**) to identify and prevent customer churn in a telecom company.
- Utilizing advanced **statistical techniques** (e.g., Pandas, NumPy) and data preprocessing libraries to clean and transform data for modelling.
- Monitored model's performance using evaluation metrics (e.g., accuracy, precision, recall) and techniques like cross-validation.
- Incorporated the integration of model with the **Flask** Framework resulting in an interactive data product.
- Planned some future engagements as targeted customer retention strategies based on churn predictions, leveraging technologies such as personalized marketing campaigns.