FNU KAJOL

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EDUCATION

University at Buffalo (SUNY), M.S. in Computer Science, USA   **Aug 2022 – Dec 2023**
Related Course: Analysis of Algorithm, Machine Learning, Hadoop, Spark, NLP, OOPs

Indian Institute of Information Technology, Lucknow, B.Tech in IT, India   **Aug 2015 – June 2019**
Related Course: Operating System, Networking, Data Structures, Database Management

PROFESSIONAL EXPERIENCE

Basis (Financial knowledge & service platform for women)   **July 2020 – July 2022**
Senior Software Engineer
- Developed a financial coaching Subscription plan which increased the revenue by 25% and streamlined payment processes by integrating Razorpay for handling financial data. Implemented an in-house live video chat functionality using Vimeo.
- Developed high-performance, scalable, and secure "Basis community" platform using MongoDB, ExpressJS on NodeJS,
- Implemented RESTful APIs and JWT for authentication, Integrated Socket.io for real-time updates, and used Axios, MomentJS, and Lodash which achieved a 30% increase in user engagement.
- Created a pipeline to send customer engagement messages to our 100K+ user base using AWS EC2, S3, and SES.

Software Engineer
- Built portal using Python and Django on AWS EC2 which automated learning module and user story organisation.
- Developed Health Insurance Calculator using JavaScript, ReactJS, and Redux which led to 81.44% revenue growth.
- Used Apple/Google Sign In and Spam Detector to authenticate valid users for our portal.
- Integrated Clevertap API to track user engagement on the portal and leverage the data to create a gamification quiz, resulting in a remarkable 98.61% increase in user engagement. Utilized Kalyera for quiz start notifications.
- Enhanced user experience by reducing API response time from 1s to 20 ms by implementing data caching on Redis.
- Implemented Postman Newman reporter for pre-deployment testing of Basis APIs.
- Actively participated in the hiring process and mentored interns and new joiners for a smooth transition into the team.

Valuefy (Wealthtech firm) - Software Developer   **July 2019 – June 2020**
- Developed and implemented an Automated Invoice Generation System at Valuefy using Node.js and MySQL, resulting in a 40% reduction in processing time for wealth advisors' invoicing processes.
- Utilized LoopBack for API development, Jenkins for continuous integration, and Elastic search for handling unstructured data, ensuring a well-integrated and robust solution that contributed to a 2x increase in operational efficiency.
- Created thorough documentation for system architecture, codebase, and API specifications, for future reference.
- Achieved data accuracy by developing reconciliation processes for transactions and generic document uploads.
- Translated client requirements into actionable solutions through active engagement in user requirements meetings.
- Led successful deployment across 4 client work processes, resulting in substantially reduced invoicing errors and enhanced Valuefy's financial data accuracy, contributing to increased trust and satisfaction among clients.
- Developed dynamic REST API, encompassing crons, sequencing, financial calculations & engine development.

PROJECTS

Topic-Based Empathic Chatbot (Link) Python| NLP
- Developed an advanced chatbot system with natural, fluid conversations, leveraging NLU techniques and incorporating a the re-ranking mechanism for human-like content retrieval.
- Integrated feedback analysis to adapt conversations based on user mood, ensuring personalized and seamless transitions.

Movie Recommendation System (Link) SQL| E/R| Triggers
- Developed a movie information system with SQL database, E/R diagram, relational schema, data loading, BCNF normalization, and optimized SQL queries using triggers.
- Developed a ReactJS-powered website specializing in query visualization.

Text Chat Application (Link) C++| TCP| Socket programming
- Developed a client-server chat app enabling multiple users to log in, establish identity, and communicate via a central server. Utilized socket programming to establish robust connections, ensuring reliable message transmission.
- Implemented a buffering system for message storage and retrieval, especially for offline clients.Conducted thorough testing in a live production environment to ensure accuracy and efficiency under real-world conditions.

Severity Analysis of US-Accidents (Link) Python| React| PowerBI
- Analyzed US accident data using Data Cleaning, Exploratory Data Analysis, and five data models (Logistic Regression, K Nearest Neighbors, Decision Tree, Random Forest Classifier, Artificial Neural Network)
- Created the React app and used Microsoft Power BI to visualize and display the analysis on the data set.

SKILLS & TOOLS

Programming Languages & Databases: Python, C, C++, HTML, CSS, JavaScript
Databases & Cloud: PostgreSQL, MongoDB, MS - SQL, MySQL, AWS- EC2, SES, S3, Docker
Technologies/Frameworks: NodeJs, React, Express, Loopback, Django, Streamlit, Microsoft Power BI, Matplotlib, Natural Language Processing (NLP), Elasticsearch, Redis, PyTorch, Pandas, NumPy, PyTorch, Linux, Postman, Git, GitHub, Jenkins, JIRA

EXTRACURRICULAR/ AWARDS

- World Rank 175 amongst 23K+, Google Code Jam to I/O for Women in 2020, Coding Language was C++
- National Talent Search Examination Scholar 2010 (Was amongst Top 1000 Intelligent Students), India