

KAJOL

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Education

University at Buffalo (SUNY), M.S. in Computer Science

Aug 2022 – Dec 2023

Relevant Courses: Analysis of Algorithm, Machine learning, Data Intensive Computing

IIIT Lucknow, India, B.Tech in Information Technology

Aug 2015 – June 2019

Relevant Courses: Software Engineering, Database systems, Object Oriented Prog., Operating Systems

Technical Skills

Languages: Python, C,C++, HTML,CSS, JavaScript, SQL, JSON, LATEX

Utilities: SQL/NoSQL Databases, VS Code, Eclipse, Microsoft Power BI

Technologies/Frameworks: Node.js, Linux, Jenkins, GitHub, React, Express, Loopback, Elasticsearch, Redis

Experience

Basis - Software Engineer

July 2020 – July 2022

- Led entire Backend from development, testing of the feature to launch to production and collaborated with team of 5 engineers in this start up for 2 years.
- Developed Health insurance calculator, where curated health insurance recommendations and advice for 100,000+ user base is offered. This led to 81.44% growth in revenue.
- Delivered a financial coaching Subscription plan feature where did third party integrations with Razorpay and Vimeo.
- Kept customer feedback into key product decisions and created a spam detector to create safe space for users.
- Developed gamification quiz feature which increased the user engagement up to 98.61%.
- Assessed and refactored the existing application code to make the product more robust and scalable.
- Handled and mentored interns which were later offered full time roles and was also involved in the hiring process.

Valuefy - Software Developer

July 2019 – June 2020

- Worked as Back-end Developer. Automated the process of invoice generation for the wealth advisors.
- Worked on Elastic search implementation for reporting and Analytics. Developed data reconciliation for Transactions and generic documents upload.
- Participated in user requirements meetings in order to transform client needs into proposed application designs.

Valuefy - Software Developer Intern

Jan 2019 – July 2019

- Responsible for creating REST APIs (setting of crons, sequencing , financial calculation, back-end operations, engines).
- Integrated different market data providers on the platform.
- Awarded with the Spotlight Award and was promoted to full-time SDE after 6 months based on performance

Projects

Severity Analysis of US-Accidents

Aug 2022 – Dec 2022

- Developed an application to deduce the severity of accidents.
- Concepts: Data Cleaning/Processing, Exploratory Data Analysis, Applied 5 data models Logistic Regression, K Nearest neighbors, Decision Tree, Random Forest Classifier, Artificial Neural Network
- Created the react app and used Microsoft Power BI for visualization and to display the analysis on the dataset.

Eye Gaze Tracking Using Webcam

July 2018 - Dec 2018

- Built a tool to detect autism at a pre-clinical stage so that proper intervention can be provided for development of autistic children.
- Did a comparative analysis of three machine learning approaches of autism detection using eye tracking, which are, CNN, DNN, and non-neural network methods-SVM and Random Forest Classifier.
- An accuracy of 73.54% was obtained using CNN, 78.86% using DNN, and 63.07% and 65.22% for SVM and Random Forest Classifier respectively.

Hand Gesture Recognition Using Kinect Sensor

Jan 2018 – May 2018

- Developed an application for recognizing hand gesture for controlling the VLC media player.
- Concepts: Data extraction(using HoG feature), classification(Multiclass-SVM).
- The method which employs depth thresholding and SVM to recognise gestures, achieved an average accuracy of 95.83%.

Extracurricular/ Awards

- World Rank 175, Google Code Jam to I/O for Women in 2020 .
- National Talent Search Examination Scholar 2010, India