Kanishk Aman

kanishkaman219@gmail.com

Bengaluru, India

(+91) 7544883347

linkedin.com/in/kanishk-aman-abb741b2

Software Development Engineer I - Visa Inc.

With 1+ years of experience in the Software Industry, I plan to further my knowledge by working on efficient and innovative data industry solutions and contribute to its extensive research community.

EDUCATION

Bachelor of Technology – Electronics and Communication Engg (Majors), Computer Science and Engg (Minors)

Indian Institute of Technology (ISM), Dhanbad

07/2014 - 04/2018 CGPA: 8.15/10

- Relevant Courses: Algorithms, Data Structures, Big Data, Data Mining, Object-Oriented Modelling, Operating Systems and Networking , DBMS

EXPERIENCE

Software Development Engineer I

Visa - Data Lake (Data Platform)

08/2019 - PRESENT Bengaluru, India

- Worked on Data Lake Controller having a set of micro-services providing metadata-driven implementation to control and manage components in the visa data lake.
- This project automates the data flow for Visa's Data Platform along with data quality check for data flowing through VisaNet.

Software Development Engineer I

Visa – Metadata Repository (Data Platform)

07/2018 - 08/2019 Bengaluru, India

- Developed a metadata repository for all data across .
- Metadata Management problem was identified as a graph problem to identify the data flow and interaction between different components, data and systems
- Designed and developed parsers for scripting languages to extract lineage and transformation information. Finally, the scripted data was stored in Graph DB(Neo4j) to capture the entities and their information.

Camera Software Engineer - Intern

DreamVu

04/2017 - 07/2017 Hyderabad, India

- Developed a SDK for point grey camera. The software enabled the camera to both capture and record 360 3D images and videos.
- The camera feed could also be streamed using cloud. This feed could be viewed using a custom made mobile application.

PUBLICATIONS

An Improved Fatigue Detection System based on Behavioral Characteristics of Driver

In 2017 2nd IEEE International Conference on Intelligent Transportation Engineering (ICITE), pages 227-230 IEEE, 2017

Citations: 1

ACTIVITIES/AWARDS

- Won 1st palce at CodeQuest organized at IIT, Dhanbad.
- Working as a mentor at Newton School Academy and training students on Data Structures and System Design.
- Co-founded the Data Science Club at IIT Dhanbad, which trains students on data science fundamentals and organized competitions on the same.

SKILLS

Languages

- C, C++, Python, Java, JavaScript

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Technologies

- Spring Boot, Apache Kafka, Apache Airflow, Hadoop Stack, TensorFlow, Spark, Maven, Git, Docker and Containers, Kubernetes, Jenkins.

ORGANIZATIONS

Founder – Data Science Club, IIT Dhanbad

Founded Data Science Club at IIT Dhanbad, which fostered interdisciplinary research on applications of Data Science across Departments.

The club annually collaborated with different startups and companies to organize hackathons, which is open for any student to participate in.

PROJECTS

Driver Fatigue Detection System

IIT Dhanbad, 2017 Dhanbad, India

- Built a real time fatigue detection system to determine the drowsiness level of driver behind the wheel.
- Pixels of the face, closer to eyes and mouth were used as feature.
- The feature size was further reduced by PCA and finally SVM was used to classify the drowsiness level.
- Whenever the classification algorithm would classify the current driver's state as drowsy, the system would throw a trigger signal to a remote app.
- The remote app would use this signal as a trigger to set off an alarm and send notifications to selected people.

Data Naming Review System

Metadata Repository, Visa - 2018 Bengaluru, India

- Built a repository for all approved abbreviations accepted across VISA. These abbreviations were verified by corresponding SMEs.
- Created a workflow for developers to get their abbreviations verified through AskNow tickets.
- Created and abbreviation engine in Python, which would generate abbreviation for any given word based on Visa's standard.
- This abbreviation engine is used by the developers to abbreviate non encountered words as per Visa's Standard.

Review Sentiment Analysis

IIT Dhanbad, 2016 Dhanbad, India

- Built a sentiment analyzer for product review system..
- The dataset contained reviews on few products on Amazon.
- The dataset was transformed and vectored using bag of words model and then using tfidf-vectorizer.
- Finally this vectored data was used to train a logistic classifier, naïve bayes and other state of art classification algorithms.
- This application is built on Python and uses packages like scikit-learn, pandas, numpy and matplotlib.