

SKILLS

Java, Python, SQL, AWS, Kafka, DocumentDB, DynamoDB, MongoDB, Lambda, Linux, Git, Windows

WORK EXPERIENCE

- Software Development Engineer II** *Disney+ Hotstar, Bangalore* **Jul'22-Present**
- Developed restful CRUD APIs for various entities in our content serving service written in Java 11 as part of migration of service backend from MySQL DB to a Nosql AWS DocumentDB.
 - Enabled search on internal Content Portal by implementing search APIs for all of the content entities enabling easier modification of the data of different entities using Java, Morphia filters and DocumentDB queries.
 - Integrated internal User Service with Content Service to enable authentication with a role-based access to the content serving service APIs ensuring integrity of the data flowing into the downstream services for customer viewing.
 - Executed the high level and low level design of Auditor Service developed to maintain change log for different entities. DocumentDB change stream events were used to keep track of these changes using SNS, Kafka and AWS Lambda functions. Consumers were made for these Kafka Topics which calculated the data change and stored the change logs in DynamoDB.
 - Implemented a request transformation service for replaying post requests to the newer content serving service working in Shadow Mode (Soak Test) which helped in identification of bugs in production traffic and proactively solving them before the service is made live on different tenants.
 - Integrated rollback request transformation service in the older content service to replicate production requests on the new service, ensuring the databases are in sync in case rollback to the older service was required due to SEV0s.

- Software Development Engineer I** *Flipkart Internet Pvt Ltd, Bangalore* **Feb'20-Jul'22**
- E-Invoicing**
- Executed the system design and implementation of restful CRUD APIs to enable interaction between vendor portal, data science models and the internal billing service using synchronous and asynchronous processing with AWS S3 buckets to store the invoice details and queues for asynchronous interaction with the between microservices and the machine learning models.
 - Lead this project in collaboration with the data science team to come up with a solution to convert Vendor Invoice PDFs to a digitized format enabling faster digitization by the invoicing teams and lesser delay in Vendor Payments. Enabling this feature onto our system enabled the scale up for Grocery and Hyperlocal verticals. Post introduction of the feature we saw a 40%-60% increased TAT for onboarded vendors within the first two months of launch.
 - Spearheaded discussions with the product team to come up with feasible ways to launch this feature, including the task breakups, timeline assessment and the solution and implementation. Was also an integral part of the on-call issues handling post feature launch and worked towards the permanent solution for the issues.

Supply Chain Financing

- This project aims at enhancing the working capital of both the Retailer and the Vendor by bringing in Lender who has capital to finance both the parties through advance payments at some nominal charge.
- Worked on the LLD of different accounting systems and the changes to be done to add this feature along with the implementation and testing of the same.
- worked on the implementation of multiple features like Advances, Recoveries, Sale or Return which enabled Flipkart to optimize on its working capital and incentives new vendors to onboard onto the platform enabling better options for the customers.

Database Migration

- single-handedly worked on API rewrite from Javascript to Python during database migration from Cassandra to MongoDB of one of the major plugins Mindmaps which had various queries for CRUD operations. Worked on optimization of the queries to reduce the time taken for each API.

Performance Test Automation Framework

- Developed feature for recording scenarios to be performance tested on websites using Debezium, enabling generation of locust python load test scripts making it a zero-code framework with features like data-correlation and data parameterization.

Product Engineer, Intern **Dimension Labs, SLK Software Services Pvt Ltd, Bangalore** **Jan'17-May '17**

- Eliminated the need for a product guide by introducing a chatbot that could answer different usage questions about the product. Used Cosine Similarity, stemming, keyword matching in developing the bot using python.
- Created a web-based programming contest platform for hosting coding competitions in SLK. Revamped DOMJudge, an open-source project, and customized the features according to our requirements.

Data Analyst, Intern **Tarah Technologies, Bangalore** **May'16-Jul'16**

- Developed an adaptive learning quiz interface which increased the difficulty of the quiz upon giving the correct answer and vice versa built using PHP, MySQL and HTML CSS.
- worked on POCs using Anomaly Detection in R in Trend Analysis and Weather forecasting. ([code](#))

Research Intern **Speech Lab, DA-IICT, Gandhinagar** **May'14-Jul'14**

- Worked on building Unit Selection Synthesis based Text to Speech System for the visually challenged person to use a computer, based on voice command. Worked on labeling the voice data with different syllables as part of the data preparation phase using Audacity.

EDUCATION

Jaipur **The LNM Institute of Information Technology** **Aug'13-May'17**

- Bachelor of Technology in **Computer Science and Engineering**. CGPA: 7.45
- **Undergraduate Coursework:** *Operating Systems; Databases; Algorithms; Programming Languages; Computer Architecture; Data Structures; Object Oriented Programming.*

Ahmedabad **Maharaja Agrasen Vidyalaya** **Apr'12-Mar'13**

- *All India Senior Secondary Certificate Examination, 92.8%*

Ahmedabad **Maharaja Agrasen Vidyalaya** **Apr'10-Mar'11**

- *All India Secondary School Examination, 9.20/10*

PROJECTS

- **LUSIP (LNMIIT Undergraduate Summer Internship Program) (Mar'16-May'17)** [Team Size-2]([code](#)) - As part of the Technical Team of LUSIP 2016 made a portal for the International Summer Internship program of our college. Students could apply to different research projects under various faculty through the portal. Developed a portal for faculty as well to put up projects and requirements for internships. PHP, MySQL, HTML, CSS
- **Social Networking Site (Jan'15-May'15)**[Team Size-3]([link](#)) - as a requirement of OOP with Java course built an application with functionalities like user registration, messaging, question answer forums using Java Server pages and DB2.

PUBLICATIONS

A Mask Based Approach For Lossless Image Steganography in *Twenty-first Americas Conference on Information Systems, Puerto Rico, 2015* ([link](#))

- Lossless recovery with high payload capacity and low error magnitude measured through PSNR (Peak Signal to Noise Ratio) values. Implemented on MATLAB.
- Provides multilevel security through XOR mapping image pixels with Arnold Transform, resulting in zero data loss.