

Sanket Vavadiya

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Experience

Software Engineer *Lycorn*

Mar 2024 – Present

- **Platform Resiliency:**

- Migrated async processes to **Kafka event-driven architecture**, enhancing resiliency, debugging, and traceability. Introduced a **multi-level job hierarchy** for async processing.
- Optimized Kafka performance by implementing **Stream Event Fanout**, reducing event delays and developer effort. Ensured **exactly-once delivery** for critical events using **MongoDB delete events**, enabling reliable reprocessing of failed messages.

- **Failed Job Notification:** Implemented **failure notifications** for async jobs, improving monitoring and troubleshooting. Enforced export row limits to enhance performance and prevent failures.

- **Application Security Certification:** Led **Indusface security audit**, addressing vulnerabilities to achieve compliance.

Software Development Engineer *Amazon*

Oct 2022 – Mar 2024

- **Improve PSR(Payment Success Rate):** Enhanced Prime customer retention by implementing targeted risk messaging, enabling prime renewal payment risk for IN, and introducing a new risk for revising failed payments, scalable across marketplaces. Resulted in a significant **+600bps** enhancement in overall PSR through effective communication of SD risks to customers.

- **Enable recurring UPI:** UPI integration for recurring payments across various Prime ingresses(Prime Promo Code and /prime), introducing a versatile popover feature for displaying payment details across platforms. Resulted in a substantial impact, elevating E-mandate coverage for recurring payments in PPC and /prime from **39% to 65%**.

- **Engineering Excellence:** Led the accounting reconciliation process for IN Prime, understood the new architecture, and guided the team in implementing logic for a **seamless transition**. Successfully migrated a use case to the new framework.

Skills & Technologies

Skills: Data Structures & Algorithms, Object Oriented Design, Design Patterns, **Distributed System**

Languages: Java, JavaScript, GoLang, Python, MySQL, ReactJS

Technologies: Node.js, Kubernetes, Kafka, AWS, MongoDB (NoSQL), RESTful, GraphQL, ElasticSearch

Education

Gujarat Technological University [🔗](#) *Bachelor of Engineering*

Aug 2017 – Jun 2021

- **CGPA:** 9.7/10

Projects

Image Classification *Deep Learning*

[github/repo](#) [🔗](#)

- Simple Image Classification using CNN from scratch. Image classification using Transfer Learning by feature extraction and fine tuning of pretrained models. Study of Hyperspectral Imaging and Classification.
- *Python, Keras*

Object Tracking *Computer vision*

[github/repo](#) [🔗](#)

- Classification among different 80 objects with very high confidence score using pre-trained YOLO-v3 model
- Creates Bounding Boxes around objects and assign them ID no to uniquely identify object detection. Based on calculated distances between centroids they keep tracking the object in consecutive video frames
- *Python, OpenCV, YOLO v3*