Saurav Kothari

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Hi, I am Saurav Kothari, a full stack engineer with 5 years of experience working with some of the fastest growing startups. I consider myself to be an engineer first, developer second; i.e, my goal is to solve problems and technology is one of the tools I utilize to solve them.

Over the past years I have had the opportunity to work across a wide range of business domains from SaaS to e-commerce. I have worked across the stack over components that have been internal facing as well as user facing and I believe I can emphatize with the end consumer of my product. My experience as a Product Engineer has expanded my horizon to understand business goals and how to and how to tie them to tech goals to create a win-win scenario for everyone involved.

I have been fortunate to have worked with various languages and frameworks and feel comfortable learning new ones as needed and switching between them on the go.

Languages	Ruby, Javascript, TypeScript, Kotlin, Go*		
Frameworks	Ruby on Rails, Dropwizard, ReactJS		
B.Tech in Computer Science and Engineering	IIT (ISM) Dhanbad	2015	7.5

* elementary proficiency

Udaan
Product Engineer, May 2019 - Aug 2020

Bengaluru

Domain: Logistics, Supply Chain, Warehousing, Accounts Payable, Financial Reconciliation

Technology: Kotlin, TypeScript, Dropwizard, ReactJS, Kubernetes, Azure SQL, Cosmos Db

As a Product Engineer, my responsibilities involved taking ownership of the business goals of the problem area, to build a roadmap for execution and achieving business goals via tech and non-tech solutions.

1. First Party Procurement

   We were building a product that would systemize the procurement process of goods at Udaan. We were purchasing and selling a lot of inventory but all the accounting was done outside the system. The goal was to build first class workflows around purchases, inwarding and reconciliation. This would help identify leaks and gaps in the financial process and prevent any potential for abuse.

   The architecture would include a product master, location master, vendor master, the layer to raise purchase orders for products to vendors, the layer to match the goods received at the Warehouse against open POs and subsequently trigger the relevant financial workflow(s).

   - Designed and developed a **location master** to maintain list of warehouses
   - Each location was mapped to kind of goods being bought/sold at location
   - Each location had an approval matrix that would allow for actions to be performed by specific individuals on the basis of access
   - Designed and developed a **product master** to maintain a central list of unique products that can be purchased or sold
   - Each product was a combination of identifying attributes of a product taking into account various packaging units
   - Designed and developed **vendor master** to store vendor information
   - Each vendor was mapped to specific warehouses for which orders could be raised and delivered
   - Each incoming shipment was matched to a vendor on the basis of tax information from the invoice
   - Allow financial documents (po, credit notes) to be generated and sent directly to vendors via email
   - Designed and developed a **modular listing layer** that can create sellable listings from product master
   - The listing layer considered Udaan to be a marketplace and can be extended to allow for listing on any other platform
   - All non identifying attributes of a listing (offers, price etc) could be managed independently
   - Designed and developed a **purchase order layer** to allow for orders to vendors for warehouses
   - Map purchase orders to vendor + location and only allow inwards of matching goods
   - Every inward is checked against open POs for the vendor and only allowed if there is matching line item
   - All deviations from the PO are recorded, staged in warehouse and require additional approval to be inwarded
   - Allow real time action on deviations - allow excess or reject and return
   - Every inward cycle to trigger the relevant **financial workflows** including vendor payments, adjustment notes, return notes etc
   - Vendor invoices are digitized manually after each inward to capture correct purchase price
   - Price changes for sales take into account the purchase price of goods and prevent accidental absurd price changes

honestbee Software Engineer 2, July 2018 - May 2019	Bengaluru

Domain: Logistics, Gig Economy

Technology: Ruby, Go, Rails, Kubernetes, Postgres, Redis

1. Hive & Logistics
    - Designed and developed a new architecture based on Domain Driven Design (DDD) for saving and presenting products data to users as part of migrating from a store based experience to a storeless experience. This included building a microservice that would communicate with multiple other services to process and present requested data to consumers.
    - Designed and developed a Dynamic Salary System for honestbee deliverers (referred to as Delivery bees). The system takes into account various parameters for payout with support for peak periods and backdated changes.

BrowserStack Inc. Software Developer, May 2015 - July 2018	Mumbai

Domain: B2B SaaS, Automation

Technology: Ruby, NodeJS, Rails, MySQL, Redis

1. Automate Team
    - Implemented a tier based segregation for the various device types offered by BrowserStack to allow custom limits on how many can be used at the same time per device per customer. This allowed us to increase the availability of our devices with minimal impact to genuine usage.
    - Designed and developed a diagnosis utility to notify users of errors in their tests based on data from multiple sources which helped reduce the load on the Tech Support team
    - Designed and developed a rule engine to validate and map user sent capabilities with both a back-end validator and front-end for users to explore the full breadth of customizations for their test suites
    - Designed and developed a Redis based caching solution ahead of our primary rails server to prevent spamming from faulty user scripts
    - Used Redis to provide HA of multiple services and async processing which allows us to provide better reliability to our users
    - Developed custom client code on Windows/Android/iOS platforms to provide browser console logs, network logs and other native browser features that allow users to debug their tests with ease
    - Designed and developed a daily summary service for users that would send them a daily digest of their tests on BrowserStack based on their time zone which increased visits to our dashboard by 20% and allowed customers to get notified of potential problems faster
    - Was responsible for optimizing and upgrading our REST API to allow users to modify and batch delete their tests with ease
    - Was responsible for maintaining real-time dashboard of customer tests with options to search and filter
    - Was responsible for maintaining a cross-region uploader service that collects and uploads session logs that can be scattered across multiple machines in multiple regions to S3
2. Rails Team
    - Wrote various admin endpoints to manage user subscriptions for the Sales team to allow them to become more self-sufficient and reduce strain on engineering resources
    - Wrote an internal newsletter tool for the Marketing team to send targeted newsletters with time zone support to users
    - Maintained payment and order processing across various iterations of pricing plans
    - A/B Testing using external and in-house frameworks
    - Was responsible for the redesign of the browserstack.com website from scratch with the focus on page performance and responsiveness
    - Was responsible for the reskin and redesign of Product Dashboard(s)
    - Analytics and tracking using internal and external data tracking services

Amazon India Pvt. Ltd. Software Developer Intern, Summer 2014	Bengaluru

1. FC Systems
    - Automated the launch of new FC (Fulfillment Centre) for various services and tools pertaining to my team (Shipment Data Platform). Manual launching of new FC's was time consuming and prone to errors. Automation reduces human intervention and optimizes time.