Pramod Kumar Sharma

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Experience

SENIOR SOFTWARE ENGINEER | COMPASS | APRIL 2021 – JAN 2023
- **Agent Search:** Developed the agents search using the agent details. It includes ingestion from *Kafka* topic and populating index in *Elastic Search*, which can further be searched upon. Agent Referral is built over it, which bring in new revenue stream for company.
- **Elastic Search Savings**: Worked on analysis of unused mappings in *Elastic Search* using *Athena* over queries saved in S3 and further dropping them, which leads to a 15% saving in OpenSearch cost.
- **Search Query Persistence Service Migration**: Developed a service to migrate saved search queries with a safe way to roll back. This project helped *reduce our migration and rollback time from 24 hours to just 30 minutes, without any downtime.*

SOFTWARE DEVELOPMENT ENGINEER 2| MICROSOFT | DEC 2017 – APRIL 2021
- **Teams Device Management Service:** Developed Device Management service for Teams Devices for tenant admins which leads to an increased adoption rate of team's devices. Worked on integration of *Cosmos-DB, Redis, Geneva and ApplicationInsights*. **[QPS > 6K/sec, P95 < 30ms]**
- **Cross-Team Service Resiliency:** Made services resilient using *Bulkhead, Retry, and Circuit Breaker Pattern*. Further brought down Time to Detect for any issues by adding new service metrics and setting up alerts. Then reduced Time to Mitigate by integrating ICM alerting and routing for the above alerts. **[Sev1/2 Reduction > 50%]**
- **Reduced Pricing of Service:** Reduced Cosmos DB pricing by 50% by limiting cross-partition queries, further helping us save on instances cost. **[Cost Reduction: > 40%]**

SENIOR SOFTWARE ENGINEER | SNAPDEAL | APRIL 2015 – DEC 2017
- **Persona and Persona Based Recommendations**: Developed system to migrate from generic recommendations to user-based recommendations by generating user-specific persona using *Spark.*
- **First Time user Recommendations**: Generate a persona based on content parameters for FTU. This helped the company to increase conversion rate by almost 7% **[Conversion Rate > 7%]**
- **Widget rendering service**: Have worked on developing APIs to serve recommendations for users as well-developed clients for using this service as well. **[QPS > 2.5K/sec; P95 < 75ms]**
- **Spark-Based Analytics Engine**: Developed a *Spark* based engine to calculate attribution for each user in sales.

Software Engineer | TargetingMantra (Acquired by Snapdeal in Feb '16)
- **Subscription Management System:** It includes Stripe-based payment gateway integration and moving from monthly manually generated invoices to Subscription Based System like AWS billing.
- **Shopify Plugin:** Worked on Shopify plugin for easy integration of Widgets and Behaviour Data Capturing in Shopify Apps.
- **Credit-Based Wallet System for Email Marketing:** It includes a credit-based payment module for sending emails and maintains a wallet-based refund for unused credits.
- **Authorization Management System:** It is used to authorize the permissions at the company level as well at the individual level inside a company to authorize a person and company for allowed actions.

SOFTWARE ENGINEER (RAILS DEVELOPER) | VINSOL | APRIL 2013 – FEB 2015
- **RoshReview:** RoshReview LLC, is an e-learning tool developed for changing the ways medical physicians study for their boards.

· **Employee-Utilization:** Employee-Utilization is an internal use project by Vinsol. It's for helping them refine their knowledge of project, team and employee-related past, present and future involvement and revenue projections.

Open-Source Contributions

· **Adding Case Sensitive Check for confirmation:** One of my commits is to add case-sensitive options to confirmation validation in the Rails framework.
· **Added Documentation for missing cases:** I added missing documentation about the nested use-case of *with_option* in *ActiveSupport::CoreExtension* in Rails framework. My contributions to Rails framework can be found here.

Personal Projects

· **Faraday Request Response Logger Gem:** Faraday is an HTTP client for Ruby. The problem with Faraday is that it does not log the request-response which makes debugging difficult. Hence, I have added middleware to log such behaviour for easy debugging.
· **Web-SQL JavaScript Library [Stalled]:** I started this project to develop an ORM layer around Web-SQL. This library was stalled because Web-SQL itself came to an end.

Education

G B Pant Govt. Engineering College, Delhi	*Aug'08 - Jul'12*
B Tech ECE	
BITS(Work Integrated Learning Plan), Pilani	*Jul'15 – Dec'18*
M Tech Software System	

Technical Strengths

· **Computer Language:** Java, Ruby, C#
· **Frameworks:** JAX-RS, Hadoop/Spark, Rails, .Net
· **Storage Engines:** MySQL, Elastic Search, Kafka
· **Cloud Platforms:** AWS, Azure
· **Architectures:** Microservices, Serverless, REST, Event Driven