

Ambesh Tiwari

Software Engineer

Experienced Software Engineer with expertise in large-scale system design, optimization, and high-performance computing.

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WORK EXPERIENCE

Software Development Engineer II

Amazon

10/2022 - Present

Financial Foundation, Ads Moderation

- Designed and deployed an invoice correction solution for Amazon Business, enabling businesses to rectify invoices for both financial and non-financial use cases.
- Optimized Transaction Daily Aging Report generation, reducing execution time from 43 min to 9 min, improving operational efficiency by 79%.
- Planned and executed a high-volume transactional data migration (> 4 billion records) from a legacy data store to the Andes dataset, ensuring data integrity with zero duplication or loss.
- Developed high throughput service for Ads ingestion, consuming Kafka stream to process millions of record each second while interacting with multiple microservices concurrently forming ingestion layer for Sponsored products.
- Global Campaign Matching: Reduced Ad moderation effort by roughly 7% by using already moderated content's data in different marketplaces using a lambda based service.
- Load & stress testing of high performant services. Defining service limits by calculating breaking point, setting client throttle limits based on usage pattern.
- Managing Ads decoration service (core moderation service), handling operation readiness, monitoring, maintenance & defining service level norms.

Contact : sapanbh@amazon.com

Software Engineer

Google

02/2022 - 10/2022

India BLR

Google Pay

- Created microservice based downtime management system for credit payment instruments.
- Contributed on enabling credit score through CIBIL report on Gpay.
- Database schema modelling for configuration based system.
- Operational works, System scaling, caching and load balancing.

Contact : sborar@google.com

Software Developer Engineer

Zappos

01/2020 - 02/2022

India

Prime Video, Zappos

- Created decoupled Image handling service, fetching url and downloading images into s3 buckets, making proper quality checks and publishing.
- Worked on development of Zappos Partner Central - a platform for vendors to manage their inventory, relations and configurations.
- Architected a service in Native AWS Stack for managing IMDb timecoded data for X-Ray Service.

CERTIFICATIONS

X Coder 3.0 Winner

Coding Ninjas

Code.Play()

NIT Patna

SKILLS

Data Structures

Flutter

OOPS

System Design

Django

AWS

Docker

Design Patterns

Git

Application Scaling

Java

Python

Javascript

Kafka

SQL

Database

Caching

GCP

PERSONAL PROJECTS

On fly face recognition

- Python & OpenCV project for facial recognition with a single picture. Detects and callouts name of subject on live cam post a pic setup.

Subscription based content website

- Created web app using Django + javascript. Publisher can post contents including graphics, markdowns. Consumers can subscribe to selected publisher to consume the posted content.

Geo-fencing security APP

- An android app enforcing security, imposing restriction over usage on other apps & making calls (managed through webapp control panel), detecting device movement out of certain range and raising alarm.

EDUCATION

Bachelor of Technology

Harcourt Butler Technical University - Kanpur

08/2016 - 08/2020

9 GPA - Computer Science and Engineering

KEY ACHIEVEMENTS

Optimised high traffic performance Ads service latency causing increase in throughput of system by 30%.

Reduced p90 latency of a core moderation service by 50% (with load of ~5k TPS) by optimising the low level design structure and rate limits.

Designed & Implemented system for migrating product & images from Amazon catalogue to Zappos, successfully migrated & listed 5 million products.

Top 3 Indian Challenge Problem Solvers Div 1 (Rank 2) in Codechef APRIL19A.

Tech Gig Code Gladiators Finalist (top 200 out of 2.5 lakh participants over India).

INTERESTS

Chess

Anime

Music