Piyush Mishra

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EDUCATION

Delhi Technological University — Delhi, India
Bachelor of Technology in Electronics and Communication; GPA: 8.1/10.0 — *Aug. 2011 – May. 2015*

EXPERIENCE

Goibibo & MakeMyTrip — Bangalore, India
Senior Software Engineer II — *October 2019 - Present*
- Designed and developed modules, microservices & functionalities such as Images & Video, Hotel Amenities, Hotel Policy, Hotel Services, How to reach property, Hotel Surveys, User Generated Content (Review, Rating, Replies) for ingommt hotel application.
- Developed features such as Property Onboarding/Listing, Property Layout Modeling, Import listing from other channels such as Airbnb etc. for the MakeMyTrip homestay mobile application.
- Developed a full-stack web application using Django, DRF, MongoDB, MySQL, Docker for the moderation of Images & Videos.
- Developed a finite state machine for the state management of on-boarded hotel & homestay properties. The data is persisted in MySQL and subsequently pushed to ElasticSearch for indexing and Kafka for client consumption.
- Developed an asynchronous service to browse Google drive file system in Depth First Search manner and fetch and create images for hotels and rooms.
- Developed the architecture to support the integration of multi-vendor content (Synxis, Derbysoft, OYO & Amazon) to power hotel content.
- Optimizing application performance metrics such as **response time, latency, throughput** by optimizing the application code and database queries through various APM metrics targeting the SLA of 99.99% availability

Amadeus Labs — Bangalore, India & Nice, France
Software Engineer & Senior Software Engineer — *July 2015 - October 2019*
- Developed Open Backend (OBE) components to handle shopping and booking transactions for Hotel IT & Rail web services distribution platform.
- Developed web application, REST API & python library for managing passenger record data (PNR).
- Built a python library integrating the centralized data logging service for the pushing, fetching, parsing of logs.

PROJECTS

Multi-threaded file transfer server | *C, pthreads*
- Designed a multi-threaded file server with caching

Distributed File System | *C++14, gRPC, and Protocol Buffers.*
- Designed and implemented a distributed file system (DFS) with a weakly consistent synchronization system to manage cache consistency between multiple clients and a single server.

Virtual CPU Scheduler and memory coordinator | *C, KVM, libvirt*
- Implemented a hypervisor CPU scheduler and memory manager using libvirt API.

MapReduce implementation using gRPC | *C++14, gRPC, and Protocol Buffers.*
- Implemented a threadpool of workers, partitioning the input data, scheduling the program's execution across a set of workers, handling worker failures and using gRPC for master-worker communication.

TECHNICAL SKILLS

Languages: Python, C/C++, Go, SQL, Shell script)
Technologies: Django, Django Rest Framework (DRF), MySQL, MongoDB, Aerospike, Couchbase
Redis, Kafka, ElasticSearch, Celery, Protobuf, gRPC, OpenMP, Open MPI
Others: Git, Docker, AWS (ECS, EC2, S3, CloudWatch), Jenkins, Grafana, Sumologic, Scalyr, NewRelic

AWARDS & RECOGNITION

Recognized and awarded best performer six times at work.
Scored top 0.2% among 1.2 million aspirants in IIT JEE and AIEEE 2011 examinations.