

# Piyush Mishra

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## EDUCATION

### Delhi Technological University

*Bachelor of Technology in Electronics and Communication; GPA: 8.1/10.0*

Delhi, India

*Aug. 2011 – May. 2015*

## EXPERIENCE

### Goibibo & MakeMyTrip

Bangalore, India

*Lead Software Engineer & Senior Software Engineer II*

*October 2019 - Present*

- Leading the backend team to build and maintain a scalable platform for hoteliers with a B2B application which powers the Hotels and Homestays to millions of customers on both MakeMyTrip & Goibibo.
- Developed microservices & functionalities such as Images & Video, Amenities, Policy & House rules, Services & Notices, How to reach property, Surveys, User Generated Content (Review, Rating, Replies) for the above 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, and 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 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, and 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

*Senior Software Engineer & 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, and 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++, 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, 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.