

# Piyush Mishra

+91-7899059160 | [piymis6@gmail.com](mailto:piymis6@gmail.com) | [linkedin.com/in/piymis](https://www.linkedin.com/in/piymis) | [piymis.com](http://piymis.com)

## EDUCATION

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### Georgia Insititute of Technology

Atlanta, USA

*Master of Science in Computer Science; GPA: 4.0/4.0*

2024

### Delhi Technological University

Delhi, India

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

2015

## EXPERIENCE

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### Media.net

Bangalore, India

*Lead Software Engineer*

*July 2022 - Present*

- Developed Open Backend (OBE) components to handle shopping and booking transactions for Hotel IT & Rail web services distribution platform.

### Goibibo & MakeMyTrip

Bangalore, India

*Lead Software Engineer & Senior Software Engineer II*

*October 2019 - July 2022*

- 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

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**Developed an interactive weather application on the Android OS to fetch and show the weather and climatic con**

**Developed an application on the Android OS to play the xylophone music instrument.** | *C++14, gRPC, and Protocol*

- 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

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**Languages:** C++, Java, JavaScript, TypeScript, Python, SQL, HTML, CSS

**Technologies:** Elasticsearch, AWS, Snowflake, Spring Boot, Spring Web MVC framework, JPA, Hibernate  
React, Git, Oracle DB2, Android Development

**Others:** Git, Docker, AWS, GCP, Jenkins, Grafana, Sumologic, Scalyr, NewRelic

## AWARDS & RECOGNITION

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Selected for Go Share Program at Visa to work with the Payment System Risk team for three months as UI developer.

Participated in the Data Product Development hackathon, our team got an honorable mention for our idea.

Scored in the top 1 percentile in JEE Main examination.

Received LIC Student of the Year award 2013 in high school.