PREETEESH SHARMA

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EDUCATION

Institute	Board/Branch	Result	Duration
Thapar Institute of Engineering and Technology, Patiala	B.E., Computer Engineering	**CGPA 9.13/10**	2016-2020
Woodbine Gardenia School, Kanpur	Grade 12- CBSE	**92.2%**	2015
Woodbine Gardenia School, Kanpur	Grade 10- CBSE	**CGPA 10/10**	2013

WORK EXPERIENCE

Software Development Engineer, OYO   *Aug 2020-Present*
- Designed and built a new flow to create and remove hotel sold out restrictions.
- Worked on reviving the Overbooking Service which opens virtual inventory by interacting with a Flask application. Worked on training and testing the **neural network model**.
- Continuously working on increasing the stability of multiple microservices and reducing code smells and bugs.

Software Development Engineer Intern, OYO   *Jan 2020-Jul 2020*
- Reduced a microservice's latency by 10 times by configuring a **read replica data-source** to split read and write operations in Spring Boot.
- Designed and developed the backend for prepaid discount CSV uploader, which is now used by the revenue team. The file is fetched from Amazon S3 after generating a pre-signed URL for it and then parsed row-wise to store the values in the database. Used **Apache Kafka** to process the CSV file in the async environment.
- Developed the backend for various reasons due to which a user can be shown a forced prepaid amount while creating a booking. Used asynchronous **Future Tasks** while implementing the same. This resulted in a greater realisation in bookings and thus an **increase in revenue**.
- Improved the latency of a microservice by using **Redis** to cache the responses of its downstream APIs.
- Improved the overall resilience of the system by implementing fault tolerance in various microservices using **Hystrix.**
- Implemented auditing and versioning of persistent entities using **Hibernate Envers**.

PROJECTS

Electronic Olfactory Device   *Jan 2019-Dec 2019*
Developed an e-nose in a team of 4. Measures VOC levels, pressure and temperature using sensors, uses a **ML algorithm** which enables it to detect smell and notifies the user via a mobile app in case of hazardous smells.

Pic2Art   *March 2019*
Implemented **Neural Style Transfer** to compose an input image in the style of another, reference image using **Keras**.

Social Networking Web App   *Jan 2019*
Developed a twitter-like social network, using the **MVC** framework **Ruby on Rails** using Test Driven Development.

Database Indexing using B-Tree   *July 2018*
Created a Java GUI application that demonstrates faster read operations on databases using **non clustered indexing**.

SKILLS

- **Technical Strengths:** Java, Data Structures and Algorithms, Object Oriented Programming, Spring Boot, PostgreSQL, Apache Kafka, Redis, MongoDB, Spring Data, REST API, Microservices, Machine Learning.
- **Interpersonal Skills:** Teamwork, Leadership, Public Speaking.

ACADEMIC ACHIEVEMENTS

Awarded with the university scholarship for being in the **top 10%** of the department.   *2016-2017*

EXTRA CURRICULAR ACTIVITIES

- Executive Member of Creative Computing Society, Thapar Institute of Engineering and Technology, Patiala.