

# Piyush Rawat

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## Summary

Software Engineer with over 4 years of experience skilled in designing and developing scalable, high-performance web applications using Java, JavaScript, MySQL. Excellent communicator with a proven ability to convey technical concepts clearly and effectively.

## Experience

### Software Development Engineer

Oct 2021 - April 2025

Indian Institute of Technology, Roorkee, India

Onsite

- Built a **scalable web application for IIT Roorkee Virtual Labs** in Java using Spring Boot, exposing RESTful APIs for secure data transfer between frontend modules.
- Implemented Apache Kafka as the **event streaming backbone of the Virtual Labs platform**, enabling asynchronous, fault-tolerant communication between backend services and the frontend interface supporting **seamless interaction for 10,000+ concurrent users**.
- Implemented a secure **MySQL database schema** for user authentication, achieving a **20% reduction in authentication errors** while ensuring robust data integrity.
- Mentored new team members and led technical knowledge sharing-sessions, **speeding up onboarding** and **boosting cross-functional productivity**.

### Associate Operations

Oct 2019 - March 2021

Startek Pvt. Ltd, Bangalore, India

Onsite

- Automated routine tasks using **PowerShell and Bash scripts**, which **improved efficiency and reduced manual effort**.
- Developed **custom monitoring scripts** that proactively detect issues and send alerts, **minimizing system downtime**.

### Back end Developer

Jan 2019 - Sep 2019

Leathermozzo India Pvt. Ltd, Bangalore, India

Onsite

- Developed **RESTful APIs integrations and MySQL** based storage solutions to **improve backend performance, scalability and data handling efficiency**.

## Skills

**Programming Languages :** Java, C++, JavaScript

**Web development :** HTML, CSS, JavaScript

**AIML :** Supervised/Unsupervised Learning, Reinforcement Learning algorithms

**Database & Backend :** MySQL, Spring Boot, Kafka, XAMPP

**Tools & Platforms :** Git, GitHub, REST APIs, Figma, Canva

**Operating Systems :** Windows, MacOS

**Other Skills :** Data Structures, Algorithms, OOPS, SDLC, Computer Networks, DBMS

**Soft Skills :** Team Leadership, Communication, Collaboration, Problem Solving, Consistency, Discipline

## Education

### Graphic Era University

Master's in Computer Application

2015 - 2017

### Graphic Era University

Bachelor's in Computer Application

2012 - 2015

## Accomplishments

- Honored with a **Silver coin by IIT Roorkee** for the design and development of an internal application, enhancing user experience and operational efficiency.
- Recognised as an **Expert speaker** by Gudlavalleru Engineering College for delivering a lecture on the "Development of Virtual Labs" sharing insights and expertise on the field.
- Optimised application performance, leading to a **20% increase in traffic** within six months.