

# Jay Kumar Patil

Technical Lead | DevOps | Cloud Specialist

*To make a sound position DevOps, achieve organizational goals and succeed in an environment of growth & excellence by leveraging on skills, knowledge and effective leadership*

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## Executive Profile

An achievement-driven high energy technocrat offering **over 10 years of experience in designing & delivering Software Solutions** and driving continuous improvement to processes, systems, workflow and customer responsiveness

**Possess excellent technical architecture skills**, enabling the creation of future-proof, complex global solutions with understanding of DevOps automation

Proficient in **DevOps based design, architecture, and implementation of next generation system architecture & automation solutions**, subject matter expertise in DevOps best practices with Cloud Formation, Auto Scaling Groups, and Configuration Management, Infrastructure Automation, and Enterprise Security

**Provided insightful knowledge of business process analysis** (As-Is, To-Be) and design; managed application-based process re-engineering, process optimization, cost control & revenue maximization from technical solutions & used cutting-edge technologies

**Leveraged skills in implementation, configuration, secured, performance & load balance**, system administration, software deployment, and support of our scalable cloud environment

**Versatile, high-energy professional, successful in achieving business growth objectives** within turnaround & rapid changing environment with excellent communication, people management, analytical and problem-solving skills

## Education & Credentials

**Master of Computer Application**, Samrat Ashok Technological Institute, Vidisha, MP, 2015, CGPA 6.73/10

**Bachelor of Computer Application**, Yash Computers Technological College, Vidisha, MP, 2011, 64.7%

## Technical Skills

**DevOps & CI/CD:** Jenkins, Docker, Kubernetes, GitOps, GitHub Actions

**Cloud Technologies:** AWS, Azure, Cloud-Native Applications

**Microservices Development:** Spring Boot, Spring Cloud, Kafka

**Application Monitoring:** Micrometer, Grafana

**Programming Languages:** Java, TypeScript, YAML

**Databases:** Postgres, MongoDB, Oracle 12c, Redis, Elasticsearch, Solr

**Messaging Systems:** Kafka, RabbitMQ

**Version Control:** Git, GitHub, Bitbucket

**Build Tools:** Maven, Gradle

**Project Management:** Agile Methodologies, Scrum, Kanban

**Soft Skills:** Leadership, Analytical Thinking, Stakeholder Management, Communication

## Key Impact Areas

DevOps CI/CD  
Implementation

Project Planning  
& Management

DevOps Build &  
Release

Stakeholder  
Management

Requirement  
Gathering

Automated DB  
Pipelines

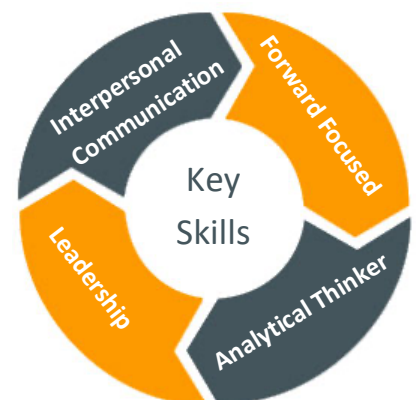
Solution  
Installation &  
Configuration

Application  
Development

Disaster  
Recovery  
Management

AWS SaaS  
Application

## Soft Skills



## Major Achievement

Reduced search time from 0.5s to 0.2s  
Decreased data size by 68%  
Handled millions of requests per second

# PROFESSIONAL EXPERIENCE

## Senior Engineering Lead

### ***Persistent Systems Limited, Indore | March 2023 – Present***

Enhanced search performance by **reducing response time from 0.8 seconds to 0.2 seconds, achieving a 75% improvement and significantly boosting user experience.**

Reduced data size by **68% through effective data compression and optimization techniques, leading to faster data processing and decreasing storage costs.**

Established comprehensive monitoring using **Micrometer and Grafana, enabling real-time performance metrics and reducing troubleshooting time by 40%.**

## Technical Lead

### ***HCL Technologies, Bangalore | September 2021 – February 2023***

**Engineered scalable systems** capable of handling **millions of requests per second**, ensuring high availability and robust performance under peak traffic conditions.

**Architected and implemented** an enterprise-level **CI/CD framework** for over **10 microservices**, enhancing deployment efficiency by **45%.**

**Led the development** of cloud-native microservices using **Spring Boot, Spring Cloud, and Kubernetes**, increasing application scalability by **25%.**

**Integrated Istio Service Mesh** for advanced traffic management, security, and observability.

## Sr. Software Engineer

### ***RWS Moravia, Indore | March 2018 – September 2021***

**Optimized system performance** by integrating modern technologies, improving efficiency by **35%** and enhancing mobile platform usability.

**Orchestrated large-scale deployments** using **Docker, Kafka, RabbitMQ, and Redis**, ensuring zero downtime and seamless scalability.

**Developed automated CI/CD pipelines** with **Jenkins**, reducing deployment time by **50%.**

**Implemented application monitoring** using **Micrometer and Grafana**, improving observability and proactive issue detection.

**Collaborated cross-functionally** to align development with business objectives, increasing client satisfaction by **15%.**

## Software Engineer

### ***Lumium Design Engineering, Ahmedabad | March 2017 – March 2018***

**Implemented RESTful APIs** with **Spring Data and HATEOAS**, enhancing client-server communication.

**Optimized batch processing** using **Spring Batch**, reducing execution time by **25%.**

**Enhanced security features** with **Spring Security**, ensuring data integrity and privacy.

**Introduced performance monitoring** with **Micrometer**, facilitating better resource management.

## Software Engineer

### ***Ad Hoc Services Pvt. Ltd., Pune | December 2014 – March 2017***

**Managed concurrent programming and session management** using **Redis and Spring Session**, improving responsiveness and reliability.

**Upgraded cloud infrastructure**, improving network efficiency by **15%.**

**Monitored system performance** using **Grafana**, aiding proactive infrastructure management.

## Key Projects & Achievements

### Performance Optimization Initiative

**Improved search results performance** by reducing response time from **0.8s to 0.2s**, enhancing user satisfaction and system efficiency.  
**Reduced data size by 68%**, optimizing storage and accelerating data retrieval processes.  
**Engineered systems to handle millions of requests per second**, ensuring reliability during high-traffic periods and scaling with user demand.

### Microservices Transformation Initiative

**Led migration** from monolithic applications to a microservices architecture using **Spring Boot** and **Spring Cloud**, improving scalability by **40%** and reducing maintenance costs by **30%**.  
**Deployed over 10's microservices** in a distributed environment, enhancing modularity and service isolation. **Implemented monitoring solutions** with **Micrometer** and **Grafana**, reducing mean time to resolution (MTTR) by **35%**.

### CI/CD Pipeline Automation

**Developed and integrated** automated pipelines using **Jenkins** and **Docker**, incorporating **Spring Framework** technologies, cutting deployment time from hours to **15 minutes**.  
**Established continuous testing and monitoring**, increasing code quality and system reliability

## Professional Development

### Conferences & Workshops

**Attended** Spring One Conference, **gaining insights into the latest developments in the Spring ecosystem**.  
**Participated in workshops** on Application Monitoring and Observability **focusing on Micrometer and Grafana**.  
**Engaged in seminars** on Performance Optimization **and** Scalable System Design.

### Technical Writing & Contributions

**Authored articles** on Apache Hadoop 3 How to compile and build from source <https://apachehadoop3.blogspot.com>

## Additional Skills

Application Monitoring & Observability: **Proficient in setting up and utilizing Micrometer and Grafana for real-time monitoring and metrics**.

Performance Tuning: **Expertise in optimizing applications for high throughput and low latency**.

Agile & Scrum Methodologies: **Skilled in iterative development, sprint planning, and leading agile teams**.

Analytical Problem-Solving: **Strong ability to diagnose complex issues and devise effective solutions**.

Effective Communication: **Adept at conveying technical concepts to diverse audiences, facilitating better collaboration**.

Leadership & Mentorship: **Proven track record of mentoring team members and fostering a culture of continuous improvement**.

**Note: Projects undertaken are enclosed in the Annexure**



### Personal Details

**Date of Birth:** 30<sup>th</sup> April 1988

**Languages Known:** English, Hindi & Marathi

**Address:** 10, Shraddhanand path, Vidisha (M.P)

## Annexure

### Projects Undertaken

<b>Project# 0</b>	Chubb's & ThermoFisher
<b>Client</b>	Chubb's & ThermoFisher
<b>Organization</b>	Persistent System, Indore
<b>Team Size</b>	12
<b>Period</b>	1 year 8 Month
<b>Technology</b>	Spring Framework & Spring Projects
<b>Role</b>	Integrated Apache Airflow, replacing Lucid work. Streamlined data processes by consolidating multiple languages into one with i8n support. Migrated 22 applications from Spring Boot to Quarks. Developed ETL processes utilizing Kafka and other data sources to enhance data integration with MongoDB.

<b>Project# 1</b>	Cisco Cross Work Network Automation and Cisco Prime Access Registrar (CPAR)
<b>Client</b>	Cisco
<b>Organization</b>	HCL Technologies, Bangalore
<b>Team Size</b>	8
<b>Period</b>	8 months
<b>Technology</b>	Spring Framework & Spring Projects
<b>Role</b>	Developing strong skills for performing migration from Struts to Spring Cloud. Working on security features to protect REST APIs from various types of attacks. Organizing and conducting efficient large-scale software deployments using Kubernetes, Kafka, RabbitMQ, including testing features and correcting code with Jenkins pipeline. Involved in defining customer requirements to develop clear specifications for creating well-organized project plans.

<b>Project# 2</b>	Oriental Trading Company
<b>Client</b>	www.orientaltrading.com
<b>Organization</b>	RWS, Indore
<b>Team Size</b>	4
<b>Period</b>	3+ Year
<b>Technology</b>	Spring Framework & Spring Projects
<b>Role</b>	Implemented latest technologies on existing modules by introducing a web CMS to enhance performance, responsiveness, and usability on mobile platforms. Led the large-scale software deployments using Docker, Kafka, RabbitMQ, and Redis as the backbone, including testing features and correcting code with Jenkins pipeline. Involved in defining customer requirements to develop clear specifications for creating well-organized project plans.

<b>Project# 3</b>	Avid Secure – Cloud Security
<b>Client</b>	www.avidsecure.io
<b>Organization</b>	Lumium, Ahmedabad
<b>Team Size</b>	2 + Client Developer
<b>Period</b>	7 Months
<b>Technology</b>	Spring Framework & Spring Projects
<b>Role</b>	Efficiently & effectively worked on REST communication Performed on Spring Data and HATEOAS to retrieve reporting alerts data Executed Spring Scheduled Batch Processing to find the brute force attack on AWS Server Worked on customer's requirements and gathered the same to design project plans

<b>Project# 4</b>	Cloud Ocular V5.4 –Server Network Configuration Tool
<b>Client</b>	ITC INFOTECH
<b>Organization</b>	ITC INFOTECH, Bangalore
<b>Team Size</b>	15
<b>Period</b>	6 Months
<b>Technology</b>	Spring Framework & Spring Projects
<b>Role</b>	Performed Concurrent Spring Programming for Non-Blocking Request & Response. Initially started with spring reactor then update with spring web flux Gained exposure in managing Spring Data and HATEOAS; upgraded & maintained the Cloud Network data Extensively worked on Spring Security for session management by Redis