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
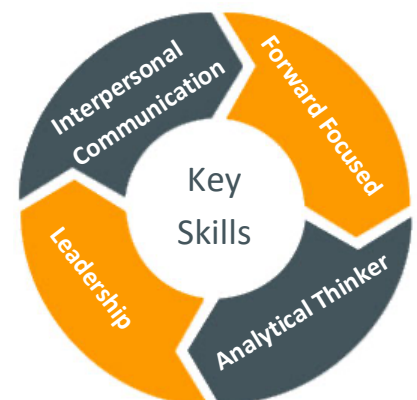**Version Control:** Git, GitHub, Bitbucket
Build Tools: Maven, Gradle
Project Management: Agile Methodologies, Scrum, Kanban
Soft Skills: Leadership, Analytical Thinking, Stakeholder Management, Communication

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

Interpersonal Communication
Forward Focused
Key Skills
Leadership
Analytical Thinker

Major Achievement

Reduced search time from 0.?s 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: ██████
Languages Known: English, Hindi & Marathi
Address: 10, Shraddhanand path, Vidisha (M.P)

Annexure

Projects Undertaken

Project# 0	Chubb's & ThermoFisher
Client	Chubb's & ThermoFisher
Organization	Persistent System, Indore
Team Size	12
Period	1 year 8 Month
Technology	Spring Framework & Spring Projects
Role	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.

Project# 1	Cisco Cross Work Network Automation and Cisco Prime Access Registrar (CPAR)
Client	Cisco
Organization	HCL Technologies, Bangalore
Team Size	8
Period	8 months
Technology	Spring Framework & Spring Projects
Role	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.

Project# 2	Oriental Trading Company
Client	www.orientaltrading.com
Organization	RWS, Indore
Team Size	4
Period	3+ Year
Technology	Spring Framework & Spring Projects
Role	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.

Project# 3	Avid Secure – Cloud Security
Client	www.avidsecure.io
Organization	Lumium, Ahmedabad
Team Size	2 + Client Developer
Period	7 Months
Technology	Spring Framework & Spring Projects
Role	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

Project# 4	Cloud Ocular V5.4 –Server Network Configuration Tool
Client	ITC INFOTECH
Organization	ITC INFOTECH, Bangalore
Team Size	15
Period	6 Months
Technology	Spring Framework & Spring Projects
Role	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