

Pawan Kumar

+91-7737507050 | pawanyd2012@gmail.com | linkedin.com/in/pawanyd
Gurugram, Haryana, India

SUMMARY

Principal Software Engineer with 9+ years of experience driving backend architecture, microservices strategy, and enterprise SaaS platform development. Proven ability to design and scale distributed systems handling millions of concurrent users. Deep expertise in system design (LLD/HLD), cloud infrastructure (AWS), containerization, API engineering, and performance optimization. Recognized for technical leadership, AI-driven automation initiatives, and mentoring high-performing engineering teams.

TECHNICAL SKILLS

Backend Technologies: Node.js, PHP, Python, RESTful APIs, SOAP APIs, Microservices Architecture

Frameworks: Express.js, Laravel, CakePHP

Databases: MySQL, MongoDB, Redis, Query Optimization, High-Availability Design

Cloud & DevOps: AWS (EC2, S3, RDS, CloudFront, Load Balancers), Docker, Linux Server Administration

Architecture: System Design (LLD/HLD), Distributed Systems, Scalability Patterns

Frontend: JavaScript, jQuery, React, AJAX, WebRTC

Engineering Practices: Git, CI/CD, API Design, Performance Tuning, Code Reviews, Agile

Emerging Tech: AI/ML Integration, Real-Time Processing, Computer Vision

PROFESSIONAL EXPERIENCE

Principal Software Engineer

SingleInterface

May 2022 – Present

Gurugram, India

Led enterprise-wide migration from monolithic systems to microservices architecture, significantly improving scalability, reliability, and deployment velocity for platforms serving millions of users.

Defined and enforced system design standards using detailed LLD and HLD documentation to ensure long-term maintainability and extensibility.

Architected high-performance backend services leveraging Redis caching, database optimization, and efficient API contracts to reduce latency and increase throughput.

Spearheaded development of an enterprise no-code website builder platform, reducing customer onboarding time by 99% through automation and modular backend design.

Integrated AI-driven workflows for automated component generation, accelerating development cycles by 70% and improving engineering productivity.

Mentored engineering teams, conducted architectural reviews, and established coding standards adopted across multiple product teams.

Senior Software Engineer

SingleInterface

May 2019 – May 2022

Gurugram, India

Designed and implemented large-scale event tracking infrastructure using Google Tag Manager and Google Analytics, processing millions of events in real time.

Contributed to microservices adoption by decomposing monolithic services and implementing scalable inter-service communication patterns.

Developed secure, high-performance REST APIs supporting digital presence optimization platforms and third-party CRM integrations.

Built universal lead management systems enabling dynamic form ingestion and real-time synchronization across multiple platforms.

Senior Software Engineer

Alwaysinfotech Private Limited

June 2018 – May 2019

Gurugram, India

Engineered backend systems for high-traffic stock market platforms handling real-time data and millions of concurrent users.
Designed scalable AWS infrastructure with auto-scaling, load balancing, and high-availability configurations.
Built reusable authentication modules, SDKs, and database abstraction layers accelerating integration timelines.

Software Engineer

Oct 2017 – May 2018

Monet Analytics (Monet Network)

Gurugram, India

Developed real-time video processing systems using WebRTC for emotion detection and viewer sentiment analysis.
Implemented backend pipelines for frame extraction, emotion classification, and analytics visualization.

Software Engineer / Associate Software Developer

Mar 2016 – Sep 2017

Grepix Infotech Pvt. Ltd.

New Delhi, India

Designed and implemented REST and SOAP APIs with secure authentication and robust validation.
Developed admin dashboards and dynamic user interfaces using JavaScript, jQuery, and AJAX.
Optimized MySQL schemas, indexing strategies, and queries for improved application performance.

EDUCATION

Master of Computer Applications (MCA)

2013 – 2016

University of Kota

Computer Science

Bachelor of Computer Applications (BCA)

2010 – 2013

University of Rajasthan

Information Technology

LANGUAGES

Hindi – Full Professional Proficiency

English – Professional Working Proficiency