

Pawan Kumar

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EXPERIENCE

SingleInterface

Principal Software Engineer

Gurugram, India

May 2022 – Present

- Architected cloud-based SaaS platform using **PHP, JavaScript/TypeScript, Node.js**, and **MySQL** serving **100,000+ users** with **99.9% uptime**, processing **5M+ requests/day**
- Spearheaded **no-code website builder** with drag-and-drop interface and real-time preview, reducing client onboarding from **2 months to 2 hours (99% efficiency improvement)**
- Pioneered **AI-powered component generation** using machine learning models, reducing development time by **70%** and enhancing design quality through intelligent recommendations
- Led **microservices transformation** from monolithic architecture, improving scalability by **300%**, reducing deployment time by **80%**, and enabling independent service scaling
- Developed cross-platform mobile applications using **React Native** for iOS and Android with shared codebase, improving development efficiency
- Mentored team of **3 engineers** on system design (HLD/LLD), code reviews, and best practices, establishing coding standards and architectural guidelines

SingleInterface

Senior Software Engineer

Gurugram, India

May 2019 – May 2022

- Architected global event tracking infrastructure using **Google Tag Manager** and **Google Analytics**, processing millions of events daily with real-time analytics integration
- Developed universal lead capture system with **CRM API** connections (**Salesforce, HubSpot, Zoho**), automating lead management and improving sales team efficiency
- Built full-stack features using **PHP, Laravel** backend with **JavaScript, Vue.js, React** frontend, implementing **RESTful APIs** with **JWT** authentication
- Designed **MySQL** and **PostgreSQL** database schemas with normalization and indexing strategies, reducing query response times by **70%**
- Implemented real-time features using **WebSockets** for live updates, notifications, and user engagement tracking

Alwaysinfotech Private Limited

Senior Software Engineer

Gurugram, India

Jun 2018 – May 2019

- Built high-traffic **stock market platform** using **PHP, JavaScript, MySQL** handling **millions of concurrent users** with **99.95% uptime** and **1M+ daily transactions**
- Designed system architecture (HLD/LLD) implementing **Redis** caching, database optimization, and efficient query strategies for real-time data processing
- Deployed on **AWS (EC2, RDS, S3, CloudFront)** with auto-scaling configurations, load balancers, and **CloudWatch** monitoring ensuring high availability
- Implemented **CI/CD** pipelines with **Docker** containerization, reducing deployment time by **60%** and improving release reliability
- Developed reusable authentication system packages with **OAuth** integration and custom SDK packages for **payment gateway** integrations

Monet Network

Software Engineer

Gurugram, India

Oct 2017 – May 2018

- Developed emotion detection platform for **Big Brother** and **Marvel Studios** using **WebRTC, JavaScript, PHP**, analyzing viewer responses to entertainment content
- Integrated face detection APIs and built video processing pipeline with frame-by-frame emotion classification, providing actionable insights for content optimization
- Built scalable data processing system handling multiple concurrent user sessions with **MySQL** database, ensuring user privacy and data security

Grepix Infotech Pvt. Ltd.

Software Engineer

New Delhi, India

Mar 2016 – Sep 2017

- Developed full-stack web applications using **PHP, CakePHP, JavaScript, jQuery, MySQL** with MVC architecture and RESTful API development
- Built responsive interfaces with **AJAX** functionality improving page load times by **50%** and ensuring cross-browser compatibility
- Designed admin panels with intuitive dashboards, data management modules, user role management, and reporting features

SKILLS

Languages: PHP, JavaScript, TypeScript, Python, Node.js, SQL

Frameworks & Libraries: Laravel, CakePHP, React, React Native, Vue.js, jQuery, Express.js, AJAX

Databases: MySQL, PostgreSQL, MongoDB, Redis

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

Architecture & Design: Microservices Architecture, System Design (LLD/HLD), RESTful APIs, SOAP APIs, Design Patterns (MVC, Repository, Factory, Observer, Singleton)

Real-time & Communication: WebRTC, WebSockets

Security & Authentication: OAuth, JWT, Session Management, CSRF Protection, XSS Prevention

Google Ecosystem: Google APIs, Google Tag Manager, Google Analytics, Google My Business

Third-Party Integrations: CRM Systems (Salesforce, HubSpot, Zoho), Payment Gateways

AI/ML: AI/ML Integration, Automated Component Generation

Development Practices: Git, Agile Methodologies, Code Reviews, Testing, Documentation

PROJECTS

No-Code Website Builder Platform | *PHP, JavaScript, TypeScript, React, Node.js, MySQL, WebSockets*

- Revolutionary drag-and-drop website builder enabling non-technical users to design and launch complete websites within minutes without coding
- Architected component-based system with real-time preview, responsive design, and seamless publishing workflows serving **millions of users**
- Reduced client onboarding from **2 months to 2 hours**, achieving **99% efficiency improvement** and empowering instant deployment
- Implemented real-time collaboration features using **WebSockets** for live updates and multi-user editing capabilities

AI-Powered Component Generation | *AI/ML Integration, PHP, JavaScript, Machine Learning Models*

- Led AI integration for automated website component design with intelligent suggestions and optimal layout recommendations
- Developed AI models generating custom components matching brand guidelines and user preferences, reducing development time by **70%**
- Implemented intelligent recommendation engine analyzing best practices and user behavior for design optimization
- Created seamless workflow where AI-designed components integrate directly into editor, enhancing design quality and consistency

Global Event Tracking & Lead Capture System | *Google Tag Manager, Google Analytics, PHP, JavaScript, RESTful APIs*

- Architected comprehensive analytics infrastructure using **Google Tag Manager** for custom event capturing with real-time **Google Analytics** integration
- Developed universal lead capture system accepting multiple form types with dynamic website integration and seamless third-party CRM API connections
- Built CRM integration framework for **Salesforce, HubSpot, Zoho** with real-time data synchronization and automated lead routing
- Enabled data-driven decision making with comprehensive audience insights and enhanced marketing effectiveness

Microservices Transformation | *Microservices Architecture, PHP, RESTful APIs, System Design*

- Led architectural transformation from monolithic to microservices architecture, improving scalability, maintainability, and performance
- Designed microservices architecture with service decomposition strategy, API gateway, and inter-service communication protocols
- Improved scalability for **millions of users**, enhanced system resilience, and enabled independent service deployment
- Established deployment pipelines, monitoring, and logging infrastructure for observability

Stock Market Platform | *PHP, JavaScript, MySQL, Redis, AWS (EC2, RDS, S3, CloudFront)*

- Built high-traffic stock market platform handling real-time data processing and trading operations for **millions of concurrent users**
- Designed LLD/HLD for complex financial systems with efficient caching strategies using **Redis** and optimized database queries
- Achieved **99.95% uptime** with AWS deployment, auto-scaling, and load balancing ensuring **1M+ daily transactions**
- Implemented real-time trading capabilities with minimal latency under high-load conditions

Emotion Detection Platform | *WebRTC, Face Detection APIs, JavaScript, PHP, MySQL, Video Processing*

- Developed innovative emotion detection platform for **Big Brother** and **Marvel Studios** analyzing viewer responses to entertainment content
- Integrated **WebRTC** for real-time video capture and implemented face detection APIs for facial landmark tracking
- Built video processing pipeline with frame-by-frame emotion classification (happiness, anger, surprise, sadness, engagement)
- Created data visualization modules with emotion graphs and sentiment timelines, identifying peak engagement moments for content optimization

EDUCATION

University of Kota

Master of Computer Applications (MCA)

Kota, Rajasthan

Jul 2013 – Mar 2016

- Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Software Engineering, Web Technologies, Operating Systems, Computer Networks, Object-Oriented Programming, System Analysis and Design

University of Rajasthan

Bachelor of Computer Applications (BCA)

Rajasthan

Jul 2010 – Jul 2013

- Relevant Coursework: Programming Fundamentals, Database Systems, Computer Networks, Web Development, Software Development, Information Systems