



Tulsiram Kushwah

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PROFESSIONAL SUMMARY

Senior Full-Stack Web Developer with 11+ years of experience delivering robust, large-scale web applications for government institutes, research organizations, SaaS products, and private enterprises. Specialized in Laravel, React.js, custom CMS platforms, AI-based web tools, CRM applications, GIS-based mapping dashboards, and end-to-end web portal systems. Successfully delivered 50+ production-grade solutions including Monsoon Mission Portal, Instruments-on-Map GIS Platform, PMS System, MausamGPT, Digital Report Selling Platform, 12+ e-commerce websites, and multiple enterprise CRMs.

Experienced in owning the complete SDLC independently - requirements gathering, system and database design, backend and frontend development, UI/UX implementation, testing, deployment, production support, and ongoing maintenance. Proven capability in leading development teams of 4+ people, coordinating directly with scientists, directors, and business heads, and transforming offline workflows into digital, automated systems.

Currently focused on scalable web platforms, performance-optimized dashboards, AI-integrated web apps, and building digital infrastructure that supports research, collaboration, and public-facing services.

TECHNICAL SKILLS

Frontend:

React.js (6 yrs) | Redux (1 yrs) | Zustand (1yr) | Next.js (6 yrs) | Vue.js (2yrs) | TypeScript (2) | JavaScript (9 yrs) | GSAP | jQuery (9 yrs) | HTML5 | CSS3 | Bootstrap | Tailwind CSS

Backend:

PHP (11 yrs) | CodeIgniter (9 yrs) | Laravel (7 yrs) | Node.js (1 yrs) | Express.js | Python (3 yr) | Flask (3 yrs) | Django (2 yrs)

Databases:

MySQL (9 yrs) | PostgreSQL | SQLite | MongoDB (Basic)

DevOps & Tools:

GitHub (6 yrs) | AWS (Basic) | Docker (Basic) | TortoiseSVN (2yrs)

CMS & E-commerce:

WordPress (5 yrs) | Custom Plugin & Theme Development

Other Skills:

Agile & Scrum | Technical Documentation | REST APIs | JWT/Auth | Performance Optimization | Cross-Browser Compatibility

Learning & Exploring:

AI | ML/DL | Generative AI | DevOps | Container Docker & Kubernetes | CI/CD Pipeline | Chatbot AI Based

PROFESSIONAL EXPERIENCE

Project Scientist II

Indian Institute of Tropical Meteorology, Pune | Mar 2023 - Present

- Led redevelopment of legacy monsoon monitoring platforms by migrating systems to Laravel + React, improving performance, scalability, and maintainability.
- Developed the official Monsoon Mission Website and custom CMS in Laravel, enabling non-technical users to manage content without developer dependency.
- Engineered PMS (Project Management System) Web Application to streamline internal workflows and project tracking across departments.
- Built Instruments-on-Map GIS Web Application for live visualization of weather instruments, sensors, and climate installations across regions.
- Designed and implemented MausamGPT — AI Chatbot for meteorological Q&A, internal knowledge retrieval, and public interaction.
- Developed centralized Big LED Display Web Application for automated display of live videos, news tickers, and climate updates in IITM premises.
- Delivered IISF Website & Web Application for large-scale science-event information dissemination and participant engagement.
- Designed official logo assets, ID-Card system, and APAR (Annual Performance Assessment Report) Web Application, automating document workflows and reducing manual processing efforts.

Senior Web Developer

Prudour Pvt Ltd, Pune | May 2022 - Mar 2023

- Developed and maintained WordPress plugins, themes, and high-performance websites, supporting large-scale traffic and SEO-driven product pages.
- Built Data Feature Web Application using Laravel + React for automated industry research insights, data search, filtering, and analytics reporting.
- Engineered a Digital Report Selling System (Laravel + React) supporting secure payment, digital licensing, download tracking, and automated invoice creation.

- Managed AWS S3 storage and PostgreSQL databases, implementing CRUD operations via Laravel queues, access policies, and secure APIs.
- Delivered internal Laravel application using MongoDB, accelerating internal workflows and reducing manual processing.
- Executed SEO optimization strategies including schema markup, metadata automation, crawl-efficiency tuning, and Lighthouse audits—contributing to 40% improvement in organic reach and page ranking.

Senior Software Developer

MoonSEZ (MoonVeda), Pune | Jul 2021 - May 2022

- Led a team of 4 developers, managing task allocation, sprint planning, peer reviews, and deployment coordination.
- Engineered a full-stack CRM Web Application used for customer lifecycle, deal tracking, ticketing, and follow-ups, reducing manual tracking needs.
- Developed an Inventory Management System enabling product stock tracking, vendor management, purchase orders, and automated movement logs.
- Enhanced in-house CRM and Payroll systems with modernization updates, improved UX, and new automation workflows, increasing operational efficiency.
- Built a WhatsApp Marketing Web Platform enabling bulk campaign sending, template-based messaging, and delivery analytics for client outreach.
- Created a CA (Chartered Accountant) Web Portal offering centralized access to verified CA services and listings under one digital platform.

Assistant Engineer (IT)

Indian Institute of Tropical Meteorology, Pune | Oct 2017 - Jul 2021

- Assisted and collaborated with external vendor teams during development of the new official institute website by providing scripts, custom modules, and functional inputs.
- Implemented security protocols reducing system vulnerabilities
- After launch, engineered additional custom CMS modules, enhancing internal content management and reducing dependency on outsourced development.
- Designed logos, banners, and marketing graphics used across official websites, events, and institute outreach material.
- Developed a Publications Web Portal with integrated CMS, enabling digital access, categorization, and search of research papers and publications.
- Built complete website + web application systems for major scientific events including ICCP Conference (with online payment gateway integration) and iRAD Conference, supporting registrations and participant workflows.
- Designed and implemented a Digital Video Library System for archiving and streaming recorded content internally.
- Developed a Current Research Highlights Web Portal to showcase ongoing climate and atmospheric science research.

- Delivered multiple standalone web pages and microsites requested by project directors and research divisions to support scientific communication.
- Built and deployed 5+ real-time meteorological dashboards, currently used by 200+ scientists for forecasting, analysis, and research decision-making.

PHP Web Developer

Bigsoft Technology, Bhopal | Mar 2015 - Jun 2017

- Developed 10+ custom web applications, including Hotel Management System, Inventory Management, School ERP, Payroll System, Email & SMS Marketing Platforms.
- Delivered 12+ e-commerce websites with product catalogues, cart systems, payment gateway integration, order management, and admin dashboards.
- Built custom CMS solutions for clients enabling non-technical users to manage content, products, and media.
- Designed marketing graphics, banners, and logos for branding and client websites.
- Led and supervised a 4-member development team, assigning tasks, reviewing code, coordinating deployment, and guiding juniors on PHP & MySQL best practices.

EDUCATION

MCA in Computer Applications

Rajiv Gandhi Proudhyogiki Vishwavidyalaya | 2012-2015 | 77.60%

BCA in Computer Applications

Maharishi Mahesh Yogi Vedic University | 2008-2011 | 64.65%

CERTIFICATIONS

- AI/ML Scaler Master- Masterclass (2025)
- Artificial Intelligence - Intellipaat (2025)
- Complete Python Course - Udemy (2023)
- Advanced PHP with MySQL - Zenith InfoTech (120 hrs)
- Core PHP Certification - Zenith InfoTech

PORTFOLIO HIGHLIGHTS

- **Monsoon Mission - Official Portal & CMS (Laravel)** - Scientific communication platform for India's national monsoon program; includes media library, managed content, dashboards, and researcher tools.
- **MausamGPT - AI Chatbot for Meteorological Q&A** - Custom chatbot built for IITM to provide domain knowledge access and internal support.

- **PMS - Project Management System (Laravel)** - Workflow automation platform used internally by IITM project teams.
- **Instruments on Map (GIS Web App)** - Real-time weather instruments visualization using map layers and live datasets.
- **IISF Event Website & Web Application** - Public-facing portal for large-scale science conference registrations and information dissemination.
- **ICCP & iRAD Conference Portals (with Payment Gateway)** - End-to-end event web systems enabling registration, payment, reporting, and certificate download.
- **Video Display & News LED Web System** - Responsive media-display platform running on large LED screens inside IITM premises.
- **Market.us E-Commerce Platform** - Large-scale product marketplace including digital research report sales, search, checkout, and subscription mechanics.
- **Digital Report Selling System (React + Laravel)** - Secure delivery of purchased market-research reports with user authentication and access tracking.
- **15+ Custom CRM & Internal Applications** - CRM systems, payroll systems, inventory tools, and staff workflow applications built across MoonSEZ & IITM.
- **WhatsApp Marketing Platform** - Bulk messaging, templates, delivery logs, and campaign analytics system.
- **CA Services Aggregator Portal** - Centralized platform listing Chartered Accountants for service requests and registrations.
- **12+ E-commerce Websites** - B2C and B2B sites including catalog, cart, checkout, and ERP-integrated backends.
- **Custom CMS Platforms** - Built CMS frameworks to allow non-technical users to manage web content, assets, menus, and media libraries across multiple organizations.