

GAGAN PAL SINGH

Senior Software Engineer | Full Stack Developer | Technical Lead

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Portfolio: <https://gpsingh.com>

GitHub: <https://github.com/gpsingh>

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PROFESSIONAL SUMMARY

Senior Full Stack Software Engineer and Technical Lead with 7+ years of experience architecting, building, and scaling web applications across SaaS, CRM, ERP, and e-commerce domains. Proven track record leading engineering teams and owning technical roadmaps end-to-end, from requirement analysis and system design through deployment and production support. Deep expertise in PHP/Laravel and the Node.js ecosystem (Express.js, NestJS), combined with modern frontend development in React.js and Next.js. Skilled in designing scalable, secure, and maintainable architectures, integrating third-party APIs and payment gateways, optimizing database and application performance, and deploying production systems on AWS and Linux infrastructure. Delivered 35+ production web applications for clients spanning healthcare, e-commerce, sports, real estate, and enterprise sectors. Combines strong technical depth with client communication, stakeholder management, and mentoring experience gained across freelance and full-time engineering roles.

CORE COMPETENCIES

Technical Leadership & Team Management • Full Stack Web Development • Scalable Software Architecture • SaaS / CRM / ERP / E-Commerce Platforms • API Design & Third-Party Integrations • Cloud Deployment & Production Support • Database Design & Optimization • Requirement Analysis & Project Delivery • Code Review & Engineering Best Practices • Client & Stakeholder Communication

TECHNICAL SKILLS

Backend Technologies: Core PHP, Laravel, CodeIgniter, CakePHP, Node.js, Express.js, NestJS, RESTful APIs, MVC Architecture

Frontend Technologies: JavaScript, React.js, Next.js, jQuery, HTML5, CSS3, Bootstrap, Tailwind

Databases: MySQL, Microsoft SQL Server, MongoDB, NoSQL, Database Optimization

Cloud & DevOps: AWS (EC2, S3), Linux (Ubuntu, CentOS), Apache/Httpd, Nginx, LAMP Stack, MERN Stack, cPanel, WAMP, XAMPP, SSL Configuration, GitHub

CMS & E-Commerce: WordPress, WooCommerce, Shopify, Webflow, Joomla, Drupal

Architecture & Practices: System Design, Scalable Architecture, Role-Based Access Control, Authentication (Firebase, JWT-based OAuth2), Payment Gateway Integration, Third-Party API Integration

Methodologies: Agile, Project Planning, Requirement Analysis, End-to-End Project Delivery

Leadership & Soft Skills: Team Leadership, Mentoring, Code Review, Stakeholder & Client Communication, Production Support, Website Optimization, Continuous Learning

PROFESSIONAL EXPERIENCE

Lead Software Engineer | BrainyDX Technologies

Apr 2026 – Present

- Lead overall engineering strategy and technical roadmap planning across multiple concurrent client engagements, driving architecture decisions for SaaS, CRM, and e-commerce platforms.
- Direct and manage multiple engineering teams, taking end-to-end ownership of platform reliability, deployment strategy, and continuous performance improvement.
- Define scalable system architecture standards and engineering best practices adopted across the engineering organization.
- Own production system reliability, coordinating performance optimization initiatives and long-term technical roadmap decisions with leadership and clients.

Senior Associate Software Engineer | BrainyDX Technologies*Jul 2023 – Apr 2026*

- Led a development team through sprint planning, code reviews, and enforcement of coding standards, mentoring developers on architecture and best practices.
- Directed client-facing meetings and stakeholder communication, translating business requirements into technical roadmaps and sprint deliverables.
- Participated in hiring and onboarding of new developers, and managed escalation and resolution of critical production issues.
- Made key architecture decisions across cross-functional projects, coordinating delivery between design, backend, and DevOps functions.

Software Development Engineer | BrainyDX Technologies*Jul 2021 – Jun 2023*

- Engineered a comprehensive Energy Management System (EMS) for Uno Minda, delivering real-time energy monitoring and consumption analytics.
- Designed and built multiple dynamic websites with custom-built Content Management Systems tailored to client-specific requirements.
- Developed an international tourism web application with a fully functional admin panel for content and user management.
- Maintained and enhanced DogSpot, India's leading pet e-commerce platform, upgrading modules, integrating third-party APIs, and enabling seamless payment gateway functionality.
- Built a community platform for women entrepreneurs featuring brand partnerships, event management, and investor/mentor network access.
- Developed an online store and invoicing platform for an electrical goods firm with role-based user management and dynamic PDF invoice generation.
- Delivered a learning, courses, and survey management platform for AIIMS Delhi supporting content delivery, assessments, and analytics.
- Built a full-fledged Hospital Management System covering lab test booking, doctor consultations, and automated report generation.
- Designed and implemented a role-based ERP system for a hardware firm to streamline internal operations.
- Integrated Google Firebase authentication for secure mobile number-based login across multiple platforms.
- Created a fantasy sports Football Auction System enabling users to form leagues, build teams, and compete against other users.
- Developed a Residential and Commercial Property Management System to manage listings, tenant data, and maintenance workflows.
- Configured and deployed LAMP stacks on AWS servers for hosting and managing WordPress and Laravel-based production applications.
- Integrated third-party APIs extensively across projects for payments, communications, and data synchronization.

Freelance Software Engineer | Independent Consulting*Aug 2018 – Jun 2021*

- Delivered end-to-end custom software solutions for independent clients, including CRM systems, a Student Management System, and a Sports Academy ERP platform.
- Built a Core PHP e-commerce store with custom login/signup modules and third-party API integrations.
- Developed School ERP system modules covering administrative and academic workflows.
- Owned full project lifecycles independently — requirement gathering, architecture, development, and client communication.
- Managed cloud hosting, server administration, SSL configuration, domain management, and deployment on cPanel and AWS infrastructure.

SELECTED PROJECT HIGHLIGHTS

Energy Management System — Uno Minda

- Problem: The client required real-time visibility into energy consumption across multiple facilities to improve operational efficiency and support data-driven decision-making.
- Solution: Designed and developed a real-time Energy Management System featuring live monitoring dashboards, instant data synchronization, and secure VPN-based access for production environments.
- Technologies: Node.js, NestJS, MongoDB, React.js, Socket.IO, AWS.
- Impact: Enabled accurate, real-time tracking and analysis of energy usage, helping stakeholders monitor consumption patterns, generate actionable reports, and optimize energy management across facilities.

SaaS Project — TheBOBProject

- Problem: Businesses needed a centralized platform to manage memberships, events, networking, and payments while ensuring a seamless user experience across web and mobile platforms.
- Solution: Developed a scalable SaaS platform with secure authentication, event management, payment integration, member onboarding, and role-based access control. Built REST APIs and responsive dashboards to streamline user and admin operations.
- Technologies: Laravel, React.JS, MySQL, JWT Authentication, REST APIs, Vercel, Git.
- Impact: Delivered a secure, high-performance SaaS solution that automated business workflows, improved user engagement, and simplified platform administration through an intuitive management portal.

SaaS Project — BrainyEV

- Problem: The EV industry lacked a centralized platform where manufacturers could showcase electric vehicles while enabling users to discover, compare, and inquire about EVs through a seamless digital experience.
- Solution: Developed a scalable EV listing platform with a role-based admin panel, a dedicated OEM portal for manufacturers to manage vehicle listings, advanced vehicle comparison features, inquiry management, and SEO-optimized pages. Built a fully customizable CMS that allows administrators to manage website content, users, roles, permissions, and platform settings without code changes.
- Technologies: PHP, Laravel, Next.js, MySQL, Apache, Vercel, CI/CD, SMTP, Git.
- Impact: Delivered a feature-rich, scalable SaaS platform that streamlined EV catalog management, empowered manufacturers with self-service vehicle onboarding, improved user engagement through comparison and inquiry features, and increased search engine visibility with SEO-optimized architecture.

DogSpot — Pet E-Commerce Platform

- Problem: A high-traffic national e-commerce platform required continuous feature enhancements, seamless third-party integrations, and reliable payment processing to support its growing customer base.
- Solution: Developed and enhanced core platform modules, integrated third-party APIs, optimized backend services, and implemented secure payment gateway integrations to improve functionality and user experience.
- Technologies: PHP, Laravel, MySQL, React.js, Solr Search, Nginx.
- Impact: Improved platform performance, ensured secure and reliable online transactions, and supported the continuous growth and scalability of one of India's leading pet e-commerce platforms.

Hospital Management System

- Problem: The healthcare provider required a centralized platform to efficiently manage patient appointments, lab test bookings, doctor consultations, and medical records while reducing manual administrative effort.
- Solution: Developed a comprehensive Hospital Management System (HMS) with modules for patient registration, appointment scheduling, lab test management, doctor consultations, automated report generation, and administrative operations.
- Technologies: PHP, Codeigniter, MySQL, React.JS, Nginx, Git.
- Impact: Streamlined both patient-facing and administrative workflows, improved operational efficiency, reduced manual processes, and enabled faster, more accurate healthcare service delivery.

CERTIFICATIONS

- AI for All — National Institute of Electronics & Information Technology (NIELIT), 2026
- Product Manager – Web & Mobile — Ministry of Skill Development and Entrepreneurship, 2026
- AI Fluency: Framework & Foundations — Anthropic, 2026
- Database Technologies — National Institute of Electronics & Information Technology (NIELIT), 2024
- Full Stack Web Development Using MVC Framework — National Institute of Electronics & Information Technology (NIELIT), 2023

PROJECT PORTFOLIO (SELECTED LIVE & DEPLOYED LINKS)

A portfolio of 50+ shipped web applications is available at <https://gpsingh.com>. Selected live project links:

[digital.brainyev.com](#) • [brainyev.com](#) • [acecricketacademy.in](#) • [saintsandmonks.com](#) • [cnerzy.com](#) • [thebobproject.co](#) • [absoluteservices.in](#) • [ktrealtypro.in](#) • [ems.unominda.com](#) (VPN required) • [indiaexplorous.in](#) • [unseenindia.in](#) • [investorarena.in](#) • [advayafleet.com](#) • [brainydx.com](#) • [imeasy.co](#) • [actonlabs.in](#) • [mindainfra.com](#) • [thceazy.com](#) • [vapprtech.com](#) • [comedymunch.com](#) • [sperandus.com](#) • [jsrnetsol.in](#) • [mahagunmedalleo.org.in](#) • [golden-i.info](#) • [245degrees.com](#) • [cressanda.com](#) • [usgcf.org](#) • [yourbooks.in](#) • [bafflesol.com](#) • [brainycareers.com](#) • [plannersevents.in](#) • [axonpartners.in](#) • [cromacampus.com](#) • [ifstherapywithsakshi.com](#)