

RAMAKANT GANGWAR

Engineering Manager | Solution Architect | Platform Engineering Leader

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EXECUTIVE SUMMARY

Engineering Manager with 15+ years of experience leading architecture, engineering delivery, platform modernisation, cloud transformation, and secure software development across SaaS, EdTech, FinTech, CRM, E-Commerce, Blockchain, AI, and Enterprise platforms. Experienced managing cross-functional engineering teams of up to 20 members while remaining highly hands-on in architecture, technical design, code reviews, engineering governance, security reviews, and platform strategy. Expertise includes Engineering Management, Solution Architecture, Platform Engineering, Distributed Systems, Multi-Tenant SaaS Platforms, Reliability Engineering, DevSecOps, VAPT, Secure SDLC, OWASP Top 10, CI/CD, Engineering Governance, Cloud Architecture, and Customer Experience Optimisation.

CORE COMPETENCIES

Engineering Management • Technical Leadership • Solution Architecture • Platform Engineering • Multi-Tenant SaaS • Distributed Systems • Scalability Engineering • Reliability Engineering • High Availability • Cloud Architecture • AWS • Azure • GCP • DevOps • CI/CD • Secure SDLC • DevSecOps • VAPT • OWASP Top 10 • SAST • DAST • SCA • Engineering Governance • Team Leadership • Agile Delivery

TECHNICAL EXPERTISE

Distributed Systems & Scalable Backend Architecture: Node.js, Express, NestJS, PHP, Laravel, Python | Microservices Architecture, Event-Driven Architecture, Serverless (AWS Lambda), Multi-Region Load Balancing (ELB), AWS ECS Containerization, Reverse Proxies (Nginx), High-Availability & Caching Strategies, RESTful APIs, gRPC (Protocol Buffers), GraphQL (Federation/Gateways), Edge Computing (Cloudflare Workers), Fault Tolerance Patterns (Circuit Breakers, Rate Limiting, Retries)

High-Performance Frontend Engineering: Next.js, React.js, Angular, Vue.js, NuxtJS, TypeScript | Server-Side Rendering (SSR), Static Site Generation (SSG), Complex State Management (useState, useReducer, Redux Toolkit, Zustand, NgRx, Signals), Web Vitals Optimisation, Code Splitting & Lazy Loading

Cloud Architecture & Elastic Infrastructure: AWS, GCP, Azure | Multi-Cloud Infrastructure, Dynamic Horizontal Auto-scaling (ASG), Event-Driven Scaling, Global Edge CDN Deployment (Cloudflare), Linux Systems (Ubuntu, Rocky Linux), GitOps Pipelines, Enterprise Observability & Distributed Tracing (Prometheus, Grafana, ELK), Kubernetes, Terraform(IAC), Cloud Formation

Security Architecture & Regulatory Compliance: AWS WAF, GCP Armor, DevSecOps Engineering, Secure SDLC, OWASP Top 10, REST/GraphQL API Security, VAPT, Threat Modelling, Automated Pipeline Security - SAST/DAST/SCA (SonarQube, OWASP ZAP), Infrastructure Hardening, Enterprise Compliance Frameworks (SOC 2, ISO/IEC 27001, PCI-DSS, CERT-In), Identity Management (OAuth2, OpenID Connect, JWT)

Data Tier Engineering & Distributed Messaging: MySQL, PostgreSQL, MongoDB, Redis (Distributed Caching) | High-Scale Data Paradigms (Database Sharding, Read Replicas, Connection Pooling, Master-Slave Topologies), CQRS & Event Sourcing, Managed Distributed Message Brokers (RabbitMQ, Apache Kafka), Distributed Search Engines (Elasticsearch), Write-Through/Write-Back Cache Patterns

Quality Assurance & Load Testing Automation: Automated Testing Strategy, Unit & Integration Testing, End-to-End (E2E) Testing, Jest, Vitest, PHPUnit, Pest, PyTest, Angular TestBed, React Testing Library, Cypress, Playwright, Postman, Infrastructure Load & Stress Testing (K6), Performance Benchmarking & Profiling

PROFESSIONAL EXPERIENCE

THINKEXAM

Engineering Manager | Aug 2025 – Present

- Leading engineering initiatives for a multi-tenant assessment platform supporting more than 50K concurrency/1 million tests per month auto scalable using Node.js, GraphQL, Typescript, Angular, Next.js/React.js, Laravel, Mysql, PostgreSQL, MongoDB, Redis, Queue Worker, Storybook, Jenkins, RabbitMQ, ELK, Terraform, Kubernetes
- Lead and mentor approximately 20 engineers across Backend, Frontend, QA, DevOps, and Product.
- Drive platform modernisation, architecture governance, engineering standards, and technical roadmap planning.
- Established Secure SDLC aligned with OWASP Top 10 and led VAPT remediation programmes.

ORION INNOVATION

Solution Architect | Sep 2023 – Jul 2025

- Led enterprise architecture, platform modernisation, AI initiatives, cloud transformation, and engineering governance for global enterprise clients.
- LiquidWeb: Modernised a hosting and e-commerce platform serving 300K–1M monthly users using Next.js/React.js, GraphQL, node.js, PostgreSQL, MongoDB, Redis caching strategies, Queue Worker, Message Broker RabbitMQ, and API optimisation.
- KPMG: Architected enterprise-wide ATOMIC design system supporting Angular and React applications. And used storybook for atomic component library.
- Rheem: Architected CRM and workflow automation solutions using Dynamics 365 and Microsoft Power Platform.
- Johnson & Johnson: Designed AI-powered automation solutions using OpenAI APIs, Python, Node.js, React, and enterprise integrations.

JB DIGITAL

Tech Lead | Feb 2020 – Jun 2023

- Led architecture, engineering delivery, mentoring, and technical governance for SaaS recruitment platforms.
- Movemeon: Architected distributed systems using Node.js, Laravel, Nest.js, Angular, React.js, Mysql, MongoDB, Redis, RabbitMQ, Docker, AWS, and GCP, AWS EC2, ECS, RDS, Cloud Run, Cloud SQL
- Introduced CI/CD automation, release governance, and engineering quality standards.

INDEPENDENT CONSULTANT

Senior Full Stack Developer | 2015 – 2020

- Delivered FinTech, Blockchain, Cryptocurrency Exchange, SaaS, and Enterprise platforms including HYBSE, Karatbit, BitWhale, DepotWallet, DimCoin and DimExplorer. Skills: Node.js, Laravel, React.js, VueJS, Angular, Mysql, PostgresQL, Clickhouse, MongoDB, DB2.
- Led team of 5-10 developers.

FINOIT TECHNOLOGIES PVT. LTD.

Team Lead | Apr 2013 – May 2015

- Led enterprise web application development projects and mentored engineering teams of 5 Developers. Skills: Zend2, Laravel, Mysql, Angular v1, BackboneJS

TECVOLO LABS

PHP Developer | Dec 2011 – Mar 2013

- Developed web applications, APIs, and backend systems. Skills: PHP, CakePHP, Zend1 and Zend2

DBYDX SOFTWARE PVT. LTD.

Software Engineer | Jun 2011 – Nov 2011

- Developed web applications and database-driven business systems. Skills: CakePHP, Mysql, REST APIs

MAJOR ACHIEVEMENTS

- Led engineering teams of up to 20 members across Backend, Frontend, QA, DevOps, and Product.
- Modernised enterprise platforms serving up to 50K concurrency/1 million monthly users.
- Established Secure SDLC, OWASP, DevSecOps, and VAPT remediation practices.
- Designed scalable distributed systems across AWS, Azure, and GCP.

EDUCATION

Bachelor of Technology (Electronics & Communication Engineering)

GLA-ITM, Uttar Pradesh Technical University

2007 – 2011