RAMRATAN GUPTA

Senior Full Stack Software Engineer & Technical Leader

Driving Scalable Cloud Solutions, AI/ML Innovations, and High-Impact Enterprise Applications

Email: ramratan.gupta@gmail.com   **Mobile:** +91 9313583357   **LinkedIn:** linkedin.com/in/ramratangupta/

PROFILE SUMMARY

- Accomplished **Full Stack Software Engineer** and **Technical Leader** with 15+ years of experience in delivering **scalable**, **secure**, and **high-performance enterprise solutions** across **cloud**, **AI/ML**, and **web applications**.
- Insightful in architecting **cloud-first systems** on **AWS**, leveraging 20+ services including **Lambda, EC2, S3, RDS, CloudFormation, Auto Scaling,** and **IAM**, driving **cost optimization** of 45% and ensuring **99.99% uptime**.
- Deep expertise in **full-stack development**, spanning **ReactJS**, **NextJS**, **NodeJS**, **PHP**, **Symfony**, **Python Flask**, **JavaScript**, **HTML**, **CSS**, and **Bootstrap**, delivering **robust front-end experiences** and **efficient back-end services**.
- Resourceful in designing and implementing **APIs** and **microservices architectures**, building 200+ **RESTful APIs** for seamless integration between **front-end** and **back-end systems**, ensuring **scalability** and **maintainability**.
- Proficient in **AI/ML** and **GenAI solutions**, leveraging **AmazonQ**, **ChatGPT**, **Github Copilot, Google Vision**, and **prompt engineering** to drive **automation**, **analytics**, and **enhanced user engagement**.
- Skilled in **DevOps**, **automation**, and **containerization**, managing **CI/CD pipelines**, **GitHub Actions**, **Docker**, **CRON jobs**, **ETL processes**, and **infrastructure-as-code** to streamline **release management** and **operational efficiency**.
- Experienced in **leading**, **mentoring**, and **client engagement**, guiding 15+ professionals, managing **Scrum teams**, conducting **code reviews**, and translating **complex business requirements** into **actionable, high-impact technical solutions**.
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CORE COMPETENCIES

- Front-end Development & UI/UX Design
- Back-end Development & API Architecture
- Cloud Architecture & Cloud-first Solutions
- AI/ML & Generative AI Implementation
- System Modernization & Platform Migrations
- Project Execution & Agile Delivery
- Code Quality, Review & Best Practices
- Team Leadership, Mentoring & Coaching
- DevOps, Automation & Continuous Integration/Delivery
- Database Design & Management
- Client Engagement & Solution Consulting

TECHNICAL SKILLS

Frontend Development	ReactJS, JavaScript, TypeScript, HTML, CSS, Bootstrap, NextJS
Backend Development	NodeJS, Golang, PHP, Python Flask, Symfony
Architecture & Design	Microservices, API Design, Monolithic Architecture, Cybersecurity, Design Patterns, AWS Well-Architected Framework
AI / ML & GenAI	GenAI, AmazonQ, ChatGPT, Github Copilot, Google Vision, Prompt Engineering
Databases	MySQL, Redis, CouchDB, DynamoDB (NoSQL)
Cloud Platforms & Services	AWS, EC2, S3, RDS, Lambda, CloudFormation, IAM, CloudFront, VPC, SQS, SNS, Route53, SES, CloudWatch, AMI Automation, Auto Scaling, DynamoDB, SSM, AWS CLI
DevOps, CI/CD & Automation	GitHub Actions, CI/CD Pipelines, Shell Scripting, Cron Jobs, ML/Ops, ETL Jobs
Containerization	Docker
Web Servers & Performance	Nginx, PHP-FPM, Elasticsearch
APIs & Integrations	REST APIs, Facebook API, Twitter API, LinkedIn API, YouTube API
Project & Team Tools	Jira, Git, Agile (Scrum), GIT Administration

EDUCATION & CERTIFICATION

- **AI Mastery Bootcamp for Beginners** | Cutting Edge School & Heartfulness Academy | 2025
- **Bachelor of Technology (B.Tech) – Computer Science & Engineering** Dr. A. P. J. Abdul Kalam Technical University, Lucknow

NOTABLE ACCOMPLISHMENTS

- **Scaled multi-tenant SaaS platforms**, handling concurrent usage of 10k users, reducing latency by **70%** through optimized database queries & caching strategies.
- **Automated deployment** across 10 repositories, reducing deployment time by **70%** and minimizing post-release issues through automated testing and rollback mechanisms.
- **Improved application security posture** by implementing OWASP best practices, multi-factor authentication, and encrypted API communication, resulting in **5 major security incidents** during tenure.
- **Optimized cloud resource utilization**, achieving **45% cost savings** in AWS spending by right-sizing EC2 instances, automating scaling policies, and leveraging serverless architectures.

WORK EXPERIENCE

Apr'25 – Present | Senior Software Developer | IntraEdge (Client: American Express) | Bangalore, India

- **Full-Stack Development** – Leading React.js frontend delivery while building scalable Golang backend services, ensuring high-performance interfaces and reliable API architectures.
- **Code Quality & Testing –** Elevating engineering standards through comprehensive unit tests, continuous reviews, and best practices, resulting in a 10% rise in code coverage and stronger release stability.
- **Deployment & DevOps Integration –** Managing CI/CD pipelines, OpenShift environments, production rollouts, and coordinating with DevOps teams to streamline development-to-deployment workflows.
- **Open Source & Performance Optimization –** Customizing the Red Hat console project while optimizing system performance, user workflows, and operational efficiency across feature sets.
- **AI & Platform Intelligence –** Increased team productivity by 40% by implementing **ChatGPT Enterprise, Custom AI Agents, GitHub Copilot,** and advanced prompt-engineering to automate unit test creation, accelerate pull-request reviews, streamline documentation, improve code-flow comprehension, and drive organization-wide adoption of AI-assisted development practices**.**

Jun'14 – Feb'25 | Knexus, Gurugram (Remote), India

Growth Path:

Jan'22 – Feb'25	Knexus, Gurugram (Remote), India	Senior Lead Full Stack Engineer / Head of Development & DevOps
Feb'16 – Dec'21	Knexus, Gurugram, India	Lead Developer
Jun'14 – Jan'16	Knexus, Gurugram, India	Senior Development Engineer

Jan'22 – Feb'25 | Knexus, Gurugram (Remote), India | Senior Lead Full Stack Engineer / Head of Development & DevOps

- **Full-Stack Development:** Built and deployed scalable applications serving 1M+ users using **ReactJS, NodeJS, PHP, Symfony, Bootstrap, HTML, CSS**.
- **API & Architecture:** Designed **200+ RESTful APIs** for seamless front-end/back-end integration; implemented **microservices & SaaS architecture**.
- **AWS Cloud & DevOps:** Modernized **AWS infrastructure**; managed **EC2, S3, Lambda, CloudFormation, IAM**, CI/CD, Docker, and disaster recovery setups.
- **Database Management:** Optimized **MySQL, Redis, CouchDB, DynamoDB** for performance; improved caching and web performance, resulting in **84% performance score for WordPress**.
- **AI/ML & GenAI Implementation: Enhanced team productivity by 30%** through the use of **Amazon Q GenAI Agents** to automate workflows, speed up development cycles, and improve solution accuracy and documentation quality.
- **Team Leadership:** Mentored 15+ developers, conducted code reviews for 10+ repositories, and led Scrum teams to enhance project delivery.
- **Project Execution:** Led **ETL jobs**, release automation, server migration, and ReactJS 16 migration; coordinated cross-functional teams for improved system uptime (99.99%).

Feb'16 – Dec'21 | Knexus, Gurugram, India | Lead Developer

- **System Migration & Upgrades:** Led migrations from **PHP7→PHP8**, **Symfony2→Symfony4**, and **Amazon Linux 1→2**.
- **UI/UX & Productivity Improvements:** Enhanced UI/UX and optimized **JIRA workflows**, resulting in **10% increase in team productivity**.
- **Product Ownership:** Managed **Experiences, Audience, and Template modules** and coordinated AWS administration for projects.

Jun'14 – Jan'16 | Knexus, Gurugram, India | Senior Development Engineer

- **API Integration:** Implemented **Facebook API integration** to boost user engagement.
- **Technology Stack Optimization:** Migrated **PHP5→PHP7**, upgraded **ReactJS 13**, and transitioned in-house MVC framework to **Symfony2**, improving code quality.

Jun'12 – May'14 | DigitasLBi, Gurugram, India | Software Developer

- **Project Delivery:** Delivered 30+ projects, including websites, social media apps, and admin panels using **PHP & jQuery** (Frontend/Backend Development).
- **API Integration:** Integrated **Facebook, Twitter, LinkedIn, YouTube APIs** to enhance client offerings (API Development & Social Media Integration).

Dec'09 – Jun'12 | Alethia Education Services, Gurugram, India | IT Executive

- **Web Development:** Developed website, employee attendance system, and email campaigns using **PHP & MySQL** (Full Stack Development).
- **Email & Lead Management:** Integrated **PHPList with AWS SES**, enabling delivery of 100,000 emails/day; implemented **lead management system** for improved customer engagement (Marketing Automation & Backend Development)

PERSONAL DETAILS

Languages Known: English, Hindi **Location:** South Delhi

Date of Birth: 3rd February 1984 **Nationality:** Indian

Refer to the given annexure for project details

ANNEXURE

Key Projects Undertaken:

Knexus (2014–2025)
Role: Product Owner / Senior Lead Full Stack Engineer / Technical Solution
Technologies: ReactJS, NodeJS, PHP, Symfony, Golang, MySQL, Redis, AWS (S3, EC2, Lambda, SQS), Docker, Python, Cron

- **Experiences Widget Platform:** Led end-to-end development of a multi-type JavaScript widget system, enabling personalized, shoppable, and educational content with AI/ML recommendations and A/B testing, improving customer engagement.
- **Templates Engine:** Designed and implemented a scalable template management system with version control, Redis caching, and automated rendering, reducing content update time by 50%.
- **ETL & Analytics Pipelines:** Architected near real-time ETL solutions for CouchDB, MySQL, and DataLake, enabling high-volume data aggregation and analytics processing.
- **Content Uploader & Automation:** Migrated secure content upload to Node.js/WebSocket server, integrated AWS S3FS, automated JS/CSS minification, and optimized client-side builds for Widget, Analytics, and Visitor JS.
- **Microservices & Cloud Modernization:** Migrated PHP monolithic apps to Node.js and AWS Lambda microservices for image processing, auto-tagging, and analytics capture, improving system scalability and reducing EC2 load.

Digitas India (2012–2014)
Role: Developer
Technologies: PHP, MySQL, JQuery, Facebook API, Twitter API, YouTube API

- Delivered 30+ interactive marketing projects including gamified experiences, quizzes, and campaigns for clients such as Aircel, Max Healthcare, Axis Bank, Samsung, and Reckitt Benckiser.
- Developed CMS and admin panels to manage dynamic content, social media API integration, and reporting dashboards.
- Implemented front-end and back-end solutions for event microsites, contests, and user engagement platforms, enhancing customer interaction and campaign effectiveness.

Alethia Education Services (2009–2012)
Role: IT Executive / Developer
Technologies: PHP, MySQL, JavaScript, jQuery, HTML, CSS, AWS SES, PHPList

- Developed and maintained educational websites for course enrollment, enquiries, and lead management.
- Implemented email marketing campaigns with PHPList and AWS SES, achieving delivery of 100,000 emails/day and automated bounce processing.
- Designed HTML newsletters and lead capture forms to improve user engagement and program awareness.