

AGRIM SHARMA

Software Engineering Manager | Python Specialist | Generative AI Expert | RAG & LLM Architect

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PROFESSIONAL SUMMARY

Accomplished Software Engineering Manager with 14+ years of progressive experience in designing, developing, and deploying scalable software solutions and leading high-performing engineering teams. Expertise in Python development (11+ years), microservices architecture, REST APIs, and emerging technologies including Generative AI, Retrieval-Augmented Generation (RAG), and Large Language Model (LLM) fine-tuning. Proven track record of driving technical excellence, optimizing operational efficiency, and mentoring engineering teams. Currently leading 10+ developers at Capgemini, architecting robust systems for enterprise-scale applications.

CORE COMPETENCIES

Leadership & Management: Team Management (20+ team members), Agile/Scrum Methodology, Stakeholder Collaboration, Performance Management, Technical Mentoring

Programming Languages: Python (11+ years), SQL

Core Technologies: Django, REST APIs, Microservices Architecture, System Design, Database Architecture

AI & Machine Learning: Generative AI, Retrieval-Augmented Generation (RAG), Large Language Model (LLM) Fine-tuning, LangChain, OpenAI API, Google Gemini API

Cloud & Infrastructure: Cloud Architecture, Scalable System Design, System Monitoring, Disaster Recovery, AWS

Software Practices: Code Review, Regression Testing, SDLC, CI/CD, Agile Implementation, Performance Optimization, High Availability Solutions

Data Management: MySQL, Complex Query Design, Data Processing, Warehouse Management Systems (WMS)

PROFESSIONAL EXPERIENCE

CAPGEMINI

Software Engineering Manager | September 2023 - Present (2 years 4 months)
Gurgaon, Haryana, India

- Led cross-functional team of 10+ developers through complete Software Development Life Cycle (SDLC), delivering mission-critical systems with high availability and enterprise-grade quality
- Architected and deployed scalable microservices and RESTful APIs, aligning technical roadmaps with enterprise business growth objectives
- Engineered Generative AI solutions using LangChain, OpenAI, and Google Gemini API, specializing in Retrieval-Augmented Generation (RAG) architectures for complex business problems
- Spearheaded technical excellence initiatives through rigorous code review processes, junior engineer mentorship, and adoption of modern cloud-native technologies
- Managed technical milestones and delivered mission-critical systems meeting strict SLAs

Senior Consultant | May 2019 - September 2023 (4 years 5 months)
Gurugram, Haryana, India

- Modernized legacy codebases, achieving 20% reduction in operational costs while significantly improving system scalability and performance
- Managed technical milestones and database architecture timelines, coordinating cross-functional teams to ensure on-time delivery
- Implemented comprehensive regression testing suites and enforced high code review standards, minimizing production defects by 30%
- Designed intuitive user interfaces and streamlined complex workflows, enhancing product usability and achieving measurable improvements in client satisfaction

PUBLICIS GROUPE

Senior Python Developer | September 2018 - May 2019 (9 months)
Gurgaon, Haryana, India

- Adopted Scrum methodologies to streamline project delivery and ensure all milestones were met within strict budgetary constraints
- Partnered with QA teams to integrate validated software updates, improving product stability and release reliability across production environments
- Identified and implemented system performance optimizations, leading to measurable enhancements in operational efficiency and user experience

SIREZ LTD.

Senior Software Engineer | December 2017 - September 2018 (10 months)
New Delhi Area, India

- Directed complex technical upgrade projects, ensuring seamless system integration and data consistency across diverse platforms
- Facilitated continuous communication with key clients to streamline data exchange and technology adoption initiatives
- Conducted in-depth architectural reviews to ensure precise project scoping and execution aligned with business objectives

INNOCATA INC.

Senior Software Engineer | April 2017 - November 2017 (8 months)
Noida Area, India

- Managed technical team of 20 members, providing coaching and performance feedback to foster professional growth and team development
- Collaborated with cross-functional stakeholders to drive network design initiatives aligned with company growth objectives
- Integrated Warehouse Management System (WMS) software, significantly improving operational metrics and tracking accuracy
- Developed Python-based PDF-to-XML conversion solution using PySide, automating large-scale data processing tasks and reducing manual effort by 40%

CHETU, INC.

Senior Software Engineer | November 2015 - November 2016 (1 year 1 month)
Noida Area, India

- Designed and delivered high-availability solutions for mission-critical applications, ensuring maximum uptime and system resilience
- Established robust procedures for system monitoring, disaster recovery, and data backup to protect critical business data
- Orchestrated large-scale software deployments utilizing comprehensive testing frameworks to ensure stable production releases

PYTECHNOLOGIES (SNAPDEAL)

Senior Software Engineer | February 2015 - November 2015 (10 months)
Gurgaon, India

- Engineered robust, high-availability solutions for critical backend systems, focusing on performance optimization and scalability
- Standardized system monitoring and performance optimization protocols across the engineering department
- Led maintenance and feature enhancement of complex ERP solutions for high-value enterprise clients
- Successfully introduced and implemented Agile methodologies and best practices across the team, accelerating development cycles

ONE97 COMMUNICATIONS LIMITED

Senior Associate | March 2011 - February 2015 (4 years)
Noida Area, India

- Led and mentored team of 15 members, overseeing performance management and individual technical development plans
 - Optimized Outbound Dialer (OBD) configurations, resulting in measurable improvements in call flow and data processing speed
 - Designed complex MySQL queries for high-performance data retrieval and real-time system reporting
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EDUCATION

Bachelor of Engineering (BE) in Computer Science

PDM College of Engineering, India | August 2006 - March 2010

PROFESSIONAL CERTIFICATIONS

- Machine Learning with Python (with Honors)
 - Python Data Structures
 - Foundations: Data, Data, Everywhere
 - Introduction to Information Technology and AWS Cloud
 - Advanced Learning Algorithms
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TECHNICAL SKILLS

Languages: Python (11+ years), SQL, JavaScript, HTML, CSS

Frameworks & Libraries: Django, REST Framework, LangChain, Pandas, NumPy

AI/ML Technologies: LLM Fine-tuning, Retrieval-Augmented Generation (RAG), OpenAI API, Google Gemini API, Generative AI

Databases: MySQL, SQL databases, Data warehousing

Cloud Platforms: AWS, Cloud-native technologies

Methodologies: Agile, Scrum, DevOps, CI/CD, System Design, Microservices Architecture

Tools & Platforms: Git, Linux, Docker, Kubernetes (exposure), Database optimization tools

KEY ACHIEVEMENTS

- Led and scaled engineering teams from individual contributor to team of 20+ members
- Architected RAG and LLM-based solutions delivering business value in Generative AI space
- Achieved 20% reduction in operational costs through legacy codebase modernization
- Implemented system optimizations reducing production defects by 30%
- Automated large-scale data processing tasks, reducing manual effort by 40%
- Successfully transitioned teams to Agile methodologies, accelerating development cycles