

Senior Python Tech Lead (5+ Yrs)

Description

Efficienza is looking for a Senior Python Tech Lead to join our growing team and drive the development of enterprise-grade technology solutions. In this role, you will build Python-powered, enterprise-grade, scalable backend systems and APIs. You will own the end-to-end architecture for application and product development, drive Agile delivery, and serve as the primary technical authority. You will translate evolving business requirements into robust, well-documented backend systems that power multi-user enterprise products—from database design through deployment

You will excel if you:

- Think in systems and architecture – designing APIs, services, and databases that scale
- Lead with a product mindset – translating business goals into technical roadmaps
- Drive quality standards through code reviews, testing, and documentation
- Mentor and elevate team members through structured technical guidance

Key Responsibilities

Backend Architecture

- Lead end-to-end development of scalable backend systems, APIs, and web applications using Python (Django/Flask/FastAPI), with deep focus on database design and service architecture
- Design modular, maintainable codebases following OOP, microservices, and established design patterns
- Define reusable patterns for data-intensive operations: async processing, event-driven workflows, and real-time data handling
- Architect REST and GraphQL APIs with clear contracts, versioning, and documentation standards

Technical Leadership

- Guide the team as Tech Lead: conduct code reviews, mentor juniors, enforce enterprise coding standards, and promote engineering best practices
- Own the technical roadmap: surface architectural gaps, trade-offs, and improvement areas before they become blockers
- Collaborate with product, front-end, QA, and DevOps teams for CI/CD, Docker deployments, and cloud integration (AWS/Azure/GCP)
- Serve as the primary decision-maker on backend technology choices, library selection, and architectural patterns

Product & Agile Delivery

- Apply product strategy thinking to align technical decisions with business goals, prioritizing features via Agile sprints, backlogs, and iterative delivery
- Drive Agile ceremonies: sprint planning, stand-ups, and retrospectives;

Hiring organization

Efficienza Business Solutions

Employment Type

Full-time

Job Location

Chennai

Experience

5+ Year

Date posted

July 25, 2026

ensure delivery velocity without compromising code quality

- Translate evolving requirements into implementation-ready technical specifications before development begins

Data & Performance

- Optimize SQL/NoSQL databases (PostgreSQL/MySQL/MongoDB/Redis): query performance, indexing strategy, and schema design
- Implement async programming patterns (Celery, asyncio) to handle high-throughput, background task, and event-driven workloads
- Troubleshoot production issues: root cause analysis, profiling, and systematic performance improvements

Quality & Documentation

- Enforce high-quality, secure code with unit and integration testing (PyTest) as a non-negotiable standard
- Maintain developer-facing documentation: API references, architecture decision records, and onboarding guides
- Own CI/CD pipeline standards: automated testing, linting, and deployment validation before every release

Required Technical Knowledge

- 5+ years hands-on Python 3.x with proven backend expertise in Django, Flask, or FastAPI at enterprise scale
- Architecture: REST/GraphQL API design, microservices, event-driven systems, and scalable DB schema design
- Databases: PostgreSQL, MySQL, MongoDB, Redis — query optimization, indexing, and data modelling
- Infrastructure: Docker, Git, CI/CD pipelines, and cloud platforms (AWS/Azure/GCP)
- Testing: PyTest, unit and integration testing, and code coverage standards
- Team leadership: code reviews, mentoring, and enterprise coding standards enforcement
- Agile/Scrum: sprint ceremonies, backlog management, and product-led iterative delivery

Good to Have

- Analytics mindset: Pandas, NumPy for data insights and feature optimization
- Front-end awareness (React/Angular) for effective cross-functional collaboration
- Real-time patterns: WebSockets, Kafka, RabbitMQ for streaming and messaging workloads
- AI/ML exposure (TensorFlow, scikit-learn) for data-driven feature development
- Experience with SaaS or enterprise multi-tenant application architecture

Key Deliverables

- Production-ready scalable backend systems and API libraries
- Technical architecture documentation and API specification ecosystem
- Code review standards, testing coverage reports, and quality audit records
- Structured onboarding documentation and developer-facing README specifications

Qualifications

- Bachelor's/Master's in Computer Science, IT, or related field
- 5+ years in Python backend development with demonstrated Tech Lead experience

What Success Looks Like

- Scalable, maintainable backend systems that require zero architectural rewrites at growth
- Evolving requirements converted into structured technical specs with no back-and-forth
- A team that ships confidently with high test coverage and clean, documented code
- Backend becomes the stable, trusted foundation that all product features are built on

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#SeniorDeveloper #HiringNow