

Python Engineer (0–2 Yrs)

Description

Role Overview

Efficienza is looking for a Python Engineer to join a fast-moving team building backend services, APIs, and data-driven applications. This role is ideal for candidates with strong Python fundamentals and an interest in backend development, whether gained through internships, academic projects, or self-driven learning. You will contribute to backend systems and data workflows that support both internal and client-facing products. We value engineers who take initiative, learn independently, ask thoughtful questions, and enjoy solving real-world technical problems.

You will excel if you:

- Write clean, readable Python code and maintain code standards as systems grow
- Understand how APIs, databases, and services work together before implementation phase.
- Use documentation, logs, and available resources to investigate problems and learn independently
- Take ownership of assigned work, communicate blockers early, and follow through reliably
- Stay curious about backend systems, APIs, data flows, and how real-world applications are built and scaled

Key Responsibilities

Python Development and Code Quality

- Write clean, well-structured Python code following agreed conventions across functions, modules, and packages
- Break down assigned features into logical components with clear input, output, and error handling before implementation
- Use object-oriented programming concepts such as classes, inheritance, composition, and abstraction to build scalable backend applications
- Apply Python fundamentals correctly: data structures, comprehensions, generators, context managers, and exception handling
- Write code that is modular, reusable, and easy to extend as requirements evolve
- Write basic unit tests for functions and modules using pytest to validate behaviour and catch regressions early

Backend Services and API Development

- Build and maintain RESTful API endpoints using FastAPI or Flask, following consistent naming and response conventions
- Implement request validation, error handling, and structured response formatting across all endpoints
- Work with relational databases: write queries, manage schema changes,

Hiring organization

Efficienza Business Solutions

Job Location

Chennai

Experience

0-2 Years

Date posted

July 16, 2026

and validate data integrity

- Integrate with internal and third-party APIs, handling authentication, request validation, error responses, and service interactions
- Work with external services and APIs, understand how they communicate, and troubleshoot integration issues when they arise

Database and Storage

- Write and optimize SQL queries for PostgreSQL across read, write, and aggregation use cases
- Understand database schema design at a basic level: normalization, foreign keys, indexes, and the tradeoffs involved
- Validate that data flows correctly between APIs, business logic, and storage layers
- Work on caching and session storage by understanding basic data structures
- Assist in maintaining database migrations and understand their impact on existing data and services

Initiative and Independent Work

- Take ownership of assigned tasks from implementation through testing and review
- Raise ambiguities, dependencies, and blockers early instead of waiting until deadlines
- Propose implementation approaches and seek feedback when requirements are unclear

Collaboration and Communication

- Collaborate with engineers during sprint activities and communicate progress, blockers, and dependencies clearly
- Learn from code reviews and architectural guidance, applying established engineering standards consistently
- Contribute to documentation and seek feedback early to ensure implementations align with team practices and expectations

Required Technical Knowledge

Area	Details
Python	Data structures, OOPS, error handling
REST API Basics	HTTP methods, status codes, request/response structure, JSON handling
FastAPI or Flask	Routing, request validation, response models, basic middleware
SQL / PostgreSQL	SELECT, INSERT, UPDATE, JOIN, WHERE clauses, basic schema understanding
Redis	Key-value storage concepts, caching basics, expiry handling
CLI and Scripts	Ability to build and run standalone Python scripts
Git	Commits, branches, pull requests, resolving conflicts, clean history, CI/CD Pipeline

Key Deliverables

- Build and maintain Python services, APIs, and data workflows with appropriate testing and documentation
- Deliver clean, reviewable code and pull requests that align with team standards
- Contribute to reliable sprint delivery by completing tasks on time and communicating risks or blockers early

Good to Have

- Internship, academic, or personal project experience using Python for backend, data, or automation work
- Exposure to Docker, async Python, data processing libraries, or message queue concepts
- Open-source contributions or publicly accessible projects that demonstrate practical development experience