

AI Python Developer – Junior+/ Middle

We are looking for AI Python Developers for our team! *Your location is not that important as long as you have the necessary skills!*

About the Role

We are seeking an experienced **AI Python Developer** to design, develop, and optimize AI-driven autonomous agents. This role involves working with **LLMs, multi-agent systems, and AI orchestration frameworks** to build intelligent, self-improving systems. You'll be responsible for developing **dynamic, context-aware AI agents** that can reason, plan, and execute complex tasks independently.

Key Responsibilities

- **AI Agent Development:** Design and implement autonomous AI agents that can perform reasoning, planning, and execution.
- **LLM Integration:** Build applications leveraging GPT (OpenAI), Claude (Anthropic), Gemini, Mistral, or open-source models for task automation and decision-making.
- **Python Development:** Write high-performance, modular Python code to implement AI workflows and agentic architectures.
- **Multi-Agent Coordination:** Develop and optimize multi-agent systems that collaborate, learn, and adapt dynamically.
- **Prompt Engineering & Optimization:** Develop and refine prompts to elicit optimal responses from AI models for various applications.
- **Data Processing & Model Fine-Tuning:** Implement data pipelines, prompt tuning, retrieval-augmented generation (RAG), and fine-tuning techniques to enhance agent intelligence.
- **Tool & API Integration:** Enable agents to interact with external APIs, vector databases (e.g., FAISS, Pinecone), and knowledge sources efficiently.
- **Performance Optimization:** Monitor AI agent behavior, improve reasoning efficiency, and reduce hallucination or failure cases.
- **Research & Innovation:** Stay at the forefront of agentic AI, reinforcement learning, and LLM-based automation to drive cutting-edge solutions.
- **DevOps & MLOps:** Build and maintain CI/CD pipelines for AI services; containerize and deploy workloads (Docker/Kubernetes); manage infrastructure as code (Terraform/Ansible); implement observability (logs/metrics/traces), reliability (SLOs, autoscaling), secrets management, and cost optimization for production AI systems.

Requirements

- **Education:** Bachelor's or Master's in Computer Science, AI, Machine Learning, or related fields.
- **At least 2 years experience** as a Python Software Engineer.
- **Programming Skills:** Strong proficiency in Python and experience with LLM-based development (e.g., OpenAI API, LangChain, LlamaIndex).
- **Containerization & Deployment:** Experience with Docker, Kubernetes, and cloud-based AI deployments (AWS, Azure, GCP).
- **NLP & AI Expertise:** Understanding of transformer models, knowledge graphs, vector databases, and memory-based AI systems.
- **Agentic AI Knowledge:** Experience with LangChain Agents, AutoGPT, BabyAGI, or similar agentic AI frameworks.

- **API & Tooling:** Familiarity with API orchestration, web scraping (Selenium, Playwright), and external tool integration for autonomous agents.
- **System Thinking:** Ability to design modular, scalable AI workflows and handle multi-step reasoning tasks.
- **Problem-Solving:** Strong analytical skills to troubleshoot AI agent decision-making and improve performance.

Our offer:

- Evolve in a start-up feel-like environment with quick decision-making rather than calling for meetings and writing emails while getting the full support of the group
- Access to the soft skills training from the Bittnet Group portfolio, in collaboration with the E-learning Company (<https://e-learningcompany.ro>);
- Hybrid working program if you're based in Bucharest or Galati
- Flexible working schedule

At **Nenos Software**, we don't just believe in the power of big data and machine intelligence – we harness it to drive transformative results for your enterprise. Our solutions enable businesses to leverage algorithms and computing power, offering a scalable alternative to traditional manpower. The outcome? Enhanced human productivity, elevated operational efficiency, and breakthroughs in scientific discovery. With **Nenos Software**, you're not just adapting to the future; you're leading it.