Type d'offre : Offre en entreprise

Date de publication : 03.03.26

Formel AI

Python Product Engineer

Informations générales

Durée du contrat : CDI

Niveau d'expérience : 5+ years

Contact :

careers@formel.ai

Date de prise de poste : mer 01/04/2026 - 12:00

Formel AI :

At [Formel AI](), we combine the creativity of generative AI with the reliability of mathematical formal methods. By leveraging the verification capabilities of formal methods, such as the Lean 4, we pioneer a new generation of Large Language Models (LLMs) that are reliable, transparent, and cost-efficient. We're honored to have received the [2nd spot of the Innovation Prize from École normale supérieure]() in Nov 2025.

Formel AI is founded by [Sylvain Combettes]() (CEO) and [Antoine Mazarguil]() (CTO), who met during their PhDs at ENS Paris-Saclay. We closed an [oversubscribed angel round]() in Feb 2026, backed by 30+ top-tier business angels including the founders of Datadog, Dataiku, Nabla, and Artefact. Our scientific advisory board includes Full

Professors from Ecole polytechnique, ENS Paris-Saclay, and Ecole des Ponts.

We're now onboarding our first design partners and building the team to make it happen. Come join us!

Adresse :

Formel AI
75000 Paris
France

Détail de l'offre (poste, mission, profil) :

About the role

As our **Python Product Developer**, you will be at the forefront of building the next generation of AI systems—combining large language models with formal verification methods to create hallucination-free, transparent, and cost-efficient solutions.

This is a hands-on technical role where you'll design and implement core machine learning algorithms, develop product features based on customer feedback, and bridge Python with high-performance compiled languages. You'll work directly with the founding team to shape the product roadmap and translate cutting-edge research into production-ready systems.

You'll be joining a founding team of deep-tech experts at a critical inflection point—moving from research breakthroughs to real-world deployment with design partners in high-stakes domains where AI reliability is paramount.

Key responsibilities

- **Develop product features**: Build and ship production-grade features for our platform, working across the full stack from backend APIs to UI prototypes using Python
- **Collaborate with design partners**: Work closely with 2-3 early customers to gather requirements and feedback, translating their needs into technical

specifications and contributing to the product roadmap

- **Build Python-native bridges**: Design and implement high-performance integrations between Python and compiled languages (Rust, Go, C++)
- **Build reusable infrastructure**: Create documentation, code templates, and engineering best practices that enable the team to scale our development approach as we grow
- **Bridge research and practice**: Work closely with the founding team, including research scientists, to translate cutting-edge formal methods research into production-ready Python implementations
- **Design ML algorithms (long term)**: Design, prototype, and optimize machine learning algorithms that power our formal verification capabilities, including graph processing, anomaly detection, and optimization techniques

What we are looking for

Essential qualities

- **Python mastery**: You speak Python as a second language and literally dream in OOP—you understand object-oriented design patterns deeply and write clean, maintainable code
- **Product mindset**: You're passionate about building features that match user needs and can respond to customer feedback with elegant technical solutions
- **Polyglot expertise**: You have deep knowledge of bridging Python with high-performance compiled languages and understand the trade-offs involved
- **A relentless drive for applicability**: You prioritize real-world impact, the continuous integration of field feedback

Background

- 5+ years of hands-on Python development experience with proven ability to build production systems
- Experience building machine learning or data-intensive applications
- Track record of working across multiple programming languages and integrating different technology stacks

Required skills

- **Python full-stack mastery**: Proficiency in Python-based backend frameworks (FastAPI, Flask, Django, etc.), solid foundations in databases (SQL, NoSQL), and core skills in cloud computing and server management (any Cloud CLI, Bash, Docker, etc.)
- **UI prototyping**: Hands-on experience with a framework like Streamlit, Gradio, Dash, or similar
- **JavaScript fundamentals**: Fundamental knowledge of JavaScript for frontend integration
- **Polyglot programming**: Expertise in at least one other programming language such as C++, Rust, Go, etc
- **Native bridges**: Proven expertise in bridging Python with compiled languages (developing Python bindings, FFI, ctypes, cffi, pybind11, or similar)
- **ML skills** (optional): Demonstrated experience or strong interest in graph processing, anomaly detection, optimization algorithms, and complex data visualization

Benefits

- **Financial & perks**
  - Competitive cash salary and equity (BSPCE) in a high-potential company.
  - Health insurance (Alan) for you and your family (partner and kids).
  - Daily lunch vouchers (Swile).
  - Hybrid work model with a strong emphasis on in-office collaboration (typically 3-4 days per week at the office) to foster team cohesion, spontaneous discussions, and deep work together.
- **What makes this role unique**:
  - **Founding team impact**: Join as one of the first employees and shape the trajectory of a moonshot deep-tech company.
  - **Mission-driven startup**: Help solve the key pressing challenges of AI—the most transformative technology of our era—ensuring LLMs are trustworthy, transparent, and cost-effective, with direct benefits for environmental sustainability.

- Work with cutting-edge technology: Build systems that combine LLMs with formal verification—an emerging field at the forefront of AI safety and reliability where breakthrough developments happen every week.
- World-class team: Collaborate with a scientific advisory board from leading institutions (Ecole polytechnique, ENS Paris-Saclay, etc) and experienced business angels from top tech companies (Datadog, Dataiku, Nabla, Artefact, and more).
- Strategic customers: Work with leading companies in healthcare, enterprise software, and other mission-critical domains.
- Flexibility of an early-stage startup: Autonomy to define how you work and what you prioritize.

Hiring process

1. Apply and submit your resume using this [Google Form](#)
2. **Screening call (30 min):** A quick chat with the CTO to align on vision and expectations.
3. **In-depth technical discussion** (home exercise followed by a **60 min** discussion)**:** Best way to decide if we are a great fit as potential collaborators.
4. **Technical deep-dive (60 min):** A focus on your proficiency with the tools you will use.
5. **Founder interview (45 min):** Final discussion on strategy, culture fit, and your long-term evolution within the company, with the CTO and CEO.

URL de l'offre :

https://docs.google.com/forms/d/e/1FAIpQLSfvLZeeEiMlhtFWlmd2IbaQ9ghPhYw3r0nSRVHZeJb

Lien vers l'offre sur le site dataia.eu :https://da-cor-dev.peppercube.org/node/1539