



Offer #2025-08694

Fullstack Python / Django Developer

Contract type : Fixed-term contract

Renewable contract : Yes

Level of qualifications required : PhD or equivalent

Fonction : Temporary scientific engineer

Corps d'accueil : Ingénieur de Recherche (IR)

Level of experience : From 5 to 12 years

Context

Software Heritage is a universal software source code archive project, whose aim is to recover, preserve for the very long term and share all publicly available source code, together with its development history (e.g., as stored in version control systems). The Software Heritage archive already contains over 19 billion unique source files and 4.2 billion commits, retrieved from over 300 million software development projects. The Software Heritage initiative, hosted by the Inria Foundation, is an entirely free software (FOSS) and non-profit project.

Autonomy, transparency and consultation are at the heart of our values (the project is free and open source).

Most of the team is based at the Inria center in Paris, but the position is open to any location in France close to an Inria center (Bordeaux, Lille, Lyon, Grenoble, Rennes, Saclay, Sofia Antipolis, Nancy).

Assignment

We are looking for an experienced front-end software engineer. The ideal candidate will have a particular interest in front-end development, web framework architecture and implementation, and API development, in a complex development and continuous integration environment.

Here is a non-exhaustive list of projects on which you could be asked to collaborate:

- Contribute to the design and development of new application modules for the Software Heritage portal (<https://archive.softwareheritage.org/>)
- Maintain and develop APIs enabling the use of Software Heritage functionalities
- Maintain and develop GraphQL APIs, and interface them with existing or future modules
- Participate in the continuous improvement of web applications to ensure compliance with quality and accessibility standards.
- Contribute to interfacing external projects with the Software Heritage ecosystem
- Contribute to support and troubleshooting

Main activities

- Development and maintenance of web applications (Django)
- Integration of REST and GraphQL APIs
- Participation in the development of Python application components
- Active participation in team life
- Interaction with relevant Open Source communities and Software Heritage partners

Skills

The following skills are expected:

- Python application development
- Implementation and configuration of web applications with Django
- Unit and front-end testing (e.g. pytest and Cypress)
- Use of continuous integration tools (Gitlab, Jenkins...)
- PostgreSQL or equivalent SGDB
- Good level of English (written and spoken)

Knowledge and experience of the following will be considered an asset:

- GraphQL apis development
- Notions of user research (UX) and UI design
- Linux fluency
- Container technologies (e.g. docker)

- Working knowledge of distributed software architectures
- Distributed scheduling technologies (e.g. RabbitMQ, Kafka, etc.)
- NoSQL databases (in particular Cassandra)

Benefits package

- Subsidized meals
- Partial reimbursement of public transport costs
- Leave: 7 weeks of annual leave + 10 extra days off due to RTT (statutory reduction in working hours) + possibility of exceptional leave (sick children, moving home, etc.)
- Possibility of teleworking (after 6 months of employment) and flexible organization of working hours
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Social, cultural and sports events and activities
- Access to vocational training
- Social security coverage

Remuneration

Depending on diploma and professional experience

General Information

- **Town/city** : Paris
- **Inria Center** : [Siège](#)
- **Starting date** : 2025-04-01
- **Duration of contract** : 3 years
- **Deadline to apply** : 2025-06-30

Contacts

- **Inria Team** : DGD-I
- **Recruiter** :
Dupre Laurence / Laurence.Dupre@inria.fr

About Inria

Inria is the French national research institute dedicated to digital science and technology. It employs 2,600 people. Its 200 agile project teams, generally run

jointly with academic partners, include more than 3,500 scientists and engineers working to meet the challenges of digital technology, often at the interface with other disciplines. The Institute also employs numerous talents in over forty different professions. 900 research support staff contribute to the preparation and development of scientific and entrepreneurial projects that have a worldwide impact.

The keys to success

The ideal candidate will have experience of participating in existing FOSS projects, in whatever capacity (developer, community organizer, technical writer, etc.). We expect self-organization and autonomy skills commensurate with the candidate's experience. Good web development practices should be well known or mastered, particularly in the context of open source software and continuous integration.

Software Heritage has a complex technical architecture, based on many different technologies, which continues to evolve. We do not expect candidates to master all of them, but rather to be open to discovery and learning. Prior knowledge of one or more of the above-mentioned subjects will help in the process of getting to grips with the project, but we encourage you to apply whatever your level of experience in these technologies.

Warning : you must enter your e-mail address in order to save your application to Inria. Applications must be submitted online on the Inria website. Processing of applications sent from other channels is not guaranteed.

Instruction to apply

CV and cover letter

Defence Security :

This position is likely to be situated in a restricted area (ZRR), as defined in Decree No. 2011-1425 relating to the protection of national scientific and technical potential (PPST). Authorisation to enter an area is granted by the director of the unit, following a favourable Ministerial decision, as defined in the decree of 3 July 2012 relating to the PPST. An unfavourable Ministerial decision in respect of a position situated in a ZRR would result in the cancellation of the appointment.

Recruitment Policy :

As part of its diversity policy, all Inria positions are accessible to people with disabilities.