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Work Experience

2007 - now   **Senior Python Developer**, **System Administrator** and **System Architect** at Pangea.org, an Internet hosting provider based on FOSS
- Operating high available IaaS, PaaS and SaaS cloud infrastructure
- Developing open source projects such as:
  django-orchestra, basefs, confine-controller or smap-gear
- Participating on FP7 EU research projects like CONFINE and Clommunity

Main Projects

2009 - now   **Develop django-orchestra**, a Django-based framework for building fully-featured web hosting control panels. Focused on extensibility, clean design and decoupled functionality, allowing to develop effective, maintainable and functional control panels with an small amount of glue code. Scales to thousands of services, servers and clients.
github.com/glic3rinu/django-orchestra

2013 - now   **Deploy, migrate and maintain a django-orchestra instance at Pangea.org**. Enabling automated management of IaaS, PaaS and SaaS infraestructure for thousands of clients and domains. Including web, mail, DNS, databases and popular CMS's, as well as handling Pangea's billing and accountancy.

2015 - now   **Develop BaseFS** (Basically available, soft state, eventually consistent filesystem). BaseFS is a gossip-driven, peer-to-peer filesystem with decentralized authority where nodes don't need to trust each other. Its focus is on solving cloud management problems on highly distributed settings, like those found in community clouds. Written in Python, it makes heavy use of concurrency and asynchronous IO.
github.com/glic3rinu/basefs

2012 - 2014   **Lead developer of confine-controller**, the central server of CONFINE architecture. CONFINE is an EU funded project with the aim of providing a large-scale testbed on top of community networks. Confine-controller manages and stores the testbed configuration in a centralized way. It provides both, a user-facing web interface and a REST API for testbed nodes. Makes heavy use of caching, asynchronous IO, coroutines and message queues, withstanding the load of thousands of nodes and providing efficient monitoring of their state.
wiki.confine-project.eu/soft:server

2007 - now   **Design, implement, migrate and maintain Pangea's high availability service infrastructure** based on OpenVZ containers and shared storage using iSCSI and *multipath* hosting thousands of users and domains.
pangea.org/infraestructura