

Internship Position

Internal Tools Management

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• Summary

Atoti is the data analytics platform developed by ActiveViam especially for financial services organizations. This unique technology meets the specific needs of the industry in ways general-purpose databases and mass-market business intelligence tools do not.

The Financial Services industry is progressively adopting the cloud for use cases Atoti handles. Migrating their solutions to the cloud has brought new challenges to our clients in managing their Atoti applications. To assist them in this process, we have begun development of a new product, Atoti PaaS.

ActiveViam also uses Atoti internally to collect and analyze data on product usage, setup test servers for integration tests, run benchmarks, etc. These deployments are currently managed manually.

• Objectives

Dogfooding (using your own product) is a very good way of testing the product and ensuring that it is easy to use, behaves the way we expect it to, avoid regressions, etc. We want to use Atoti PaaS to manage all of our internal tools, providing us with another way of testing the features of the PaaS before releasing it to our customers.

During this internship you will:

- Write an analytics tool using Atoti to gather data from our internal time tracking tools (Jira, GitHub, Replicon) to allow us to monitor how our R&D resources are being used, and where we are spending our time
- Deploy this tool using Atoti PaaS
- Implement any changes required to the PaaS itself to streamline the deployment process
- (Optional) Setup a benchmarking tool which runs on the PaaS and automatically updates an application deployed on the PaaS used to monitor and check the benchmark results

• Technical stack

You will use one of ActiveViam's core products, the Atoti Python API, in order to build the analytics tool.

Atoti PaaS is a microservice based application deployed using kubernetes. The microservices are implemented using Python and FastAPI. The UI is a React/Typescript application. Any modifications you need to make to the platform itself will be implemented using these technologies.

CI/CD is managed using CircleCI, the deployment of your application will use this tool in order to automatically deploy changes made to the application to Atoti PaaS