

Software architect (w/m/x) in Biotech Startup

Full time from immediate, remote

Interherence is a young high-tech startup that develops, manufactures, and sells game-changing products in the field of optical biotechnologies. We combine integrated and classical optics with modern methods of nanofabrication to bring ease of use and reproducibility to light microscopy. In this role, you will lead the launch of new products and drive sales of existing products, with a particular focus on biomedical, biophysical, and pharmaceutical researchers as key customer groups. As an integral member of our fast-growing team, your position will be fundamental to the market success of our company. At Interherence, you can expect an interesting and dynamic environment, working closely with colleagues of ten different nationalities and diverse scientific backgrounds. You will have the opportunity to explore new technologies, contribute your own ideas and experiences, and lead an ambitious team, providing excellent opportunities for personal development. While our headquarters are in Erlangen, Germany, you will have the flexibility to work remotely from the EU or the US. However, monthly or fortnightly visits to Erlangen will be required.

Your main tasks and responsibilities:

- Design and implement a fully cloud-based data analysis suite for fast and simple interpretation of super-resolution microscopy imaging data.
- Design data pipelines capable of scaling to handle large datasets, including storage, processing, and loading with robust features for filtering, pre-processing, post-processing, de-duplication, and versioning.
- Conceptualize and design monitoring functions, algorithms, and software components.
- Define and develop interfaces between hardware, software, and users.
- Conceptualize, design, and implement state-of-the-art image analysis tools.
- Define and supervise frontend development.
- Closely coordinate with other stakeholders from hardware, firmware development, and product management.

For this job, you should:

- Enjoy working as part of a fast-moving team, where perfectionism can sometimes be at odds with (but sometimes directly required for) pragmatism.
- Take ownership of problems end-to-end and be willing to acquire the necessary context to get the job done.
- Have a desire to tackle problems across the stack, whether they are networking issues, performance bottlenecks, memory leaks, or reading unfamiliar code to identify potential issues.
- Have experience in the field of image evaluation and classification algorithms.
- Value code quality and take pleasure in building tools that are user-friendly and extensible.

We are open to leveraging scalable tools to meet the challenge (and developing our own in-house tools if necessary). Here is a sampling of the services currently running (and planned) in production:

- Languages (Python / Go / C++)
- Data Orchestration (Airflow / Dagster)
- Infrastructure, Storage, and Processing (AWS S3, K8s)
- Pipeline Monitoring (Datadog)

Does this sound like a perfect match? We look forward to receiving your application!

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