Senior Full Stack Developer – Frontend Focus (UX/UI)

Build the Future of Spatial Biology Analysis

Katana Labs | Dresden, Germany (Hybrid) | Full-time

About Katana Labs

[Katana Labs](#) is a German TechBio startup, founded in 2023. We're building the AI-powered platform that's transforming how researchers analyze spatial biology data. Our cloud platform, Katana Edge, is already used by leading biotech and life science organizations to turn complex microscopy images into actionable insights – accelerating cancer research and drug discovery.

Katana Edge is redefining how scientists decode tissue biology in life sciences, biopharma R&D and precision medicine. By combining cloud-native infrastructure with powerful AI, Katana Edge turns terabytes of complex imaging and molecular data into intuitive, actionable insights - all within the browser. This enables R&D teams to uncover spatial biomarkers, understand tumor-immune interactions, and accelerate the development of precision therapies.

As a small, deeply experienced, and fast-paced team, we're at the intersection of cutting-edge AI, spatial data science, and cancer biology. Now, we are looking for a highly skilled and motivated senior full-stack engineer to join our company and advance Katana Edge for global scalability.

The Role

We're looking for a **dedicated web developer** – a mid to senior-level engineer with 5+ years of experience who loves crafting captivating, performant frontends but can work across the full stack when needed.

You'll be instrumental in shaping our web platform to build features that researchers rely on daily. This isn't just another CRUD app – you'll tackle genuinely interesting technical challenges at the intersection of web technology and computational biology.

What you'll work on:

- **Visualizing massive images**: Render and enable fluid interaction with gigapixel microscopy images in the browser
- **Making complexity intuitive**: Design and build UX flows that make sophisticated spatial analysis workflows feel natural to scientists
- **Integrating AI**: Provide seamless user experience for our AI-powered analysis pipelines
- **Building for scale**: Optimize performance for handling large spatial datasets in real-time
- **Owning features end-to-end**: Take ideas from concept through implementation, working across our TypeScript-based frontend and Python/FastAPI backend

What you'll work with:

- **Frontend:** TypeScript, Alpine.js, OpenSeadragon, DeckGL, Three.js, WebGL, D3
- **Backend:** Python, FastAPI
- **Cloud:** GCP, AWS

What We're Looking For

You have:

- 5+ years of professional software development experience
- Strong expertise in modern web development (using React, Vue.js or similar) with TypeScript
- Experience building performant, responsive web applications
- Comfortable working across the full stack (Python/FastAPI backend)
- A track record of shipping production code that users love
- The self-starter mindset to thrive in a fast-paced startup environment
- Fluency in English (German is a plus)

Bonus points for:

- Experience with biomedical imaging or geospatial applications
- Affinity for machine learning or computational biology
- Familiarity in cloud platforms (GCP, AWS, Azure)
- Expertise in securing web applications
- Previous startup experience
- Open source contributions or side projects we can check out

Why Join Katana Labs?

- **Real impact**: Your work directly enables researchers fighting cancer and discovering new precision treatments
- **Technical challenges**: Solve genuinely hard problems in web-based scientific computing
- **Growth trajectory**: Clear path to leading our web development team as we scale
- **Cutting-edge technology**: Work with the latest in AI, computational biology, spatial data analysis, and cloud platforms
- **Competitive package**: Strong compensation, flexible working hours, and opportunity for growth
- **Small team, big influence**: Shape our technical direction and product from an early stage
- **Dresden location**: Hybrid work with regular office collaboration in one of Germany's most livable cities and tech hubs

How to Apply

Please send your CV and a short motivational statement via email to: mail@katana-labs.com

The motivational statement about your decision to join us should include:
- Why you're excited about this role
- A project you're particularly proud of and why
- What you hope to learn or build at Katana Labs

We're looking to fill this position as soon as possible.

And be sure to check out our [LinkedIn](#) profile, where you'll find more information about our recent progress.