Job Description: Hands-on Lead Platform Architect: AIOps Networks Start-up

Overview

NetFabric's platform lead architect oversees the entire lifecycle of the platform, from design and development to testing, deployment, and maintenance. Additionally, they integrate the deep tech innovations coming from ETH Zurich PhDs into the platform.

Details

We want you if you are looking to:

- Develop novel approaches in the areas of network monitoring, data manipulation, AIOps, and data visualization
- Learn about computer networking concepts you are unfamiliar with
- Produce high quality and high performance code and products that delight our users
- Work independently within a strong team

The position requires a solid experience in:

- Fast prototyping
- Software development with experience in at least one of the technologies we will work with (i) Python (or another programming language widely known by network operators), (ii) Rust (or another language suitable for efficient manipulation of vast amounts of data), (iii) ClickHouse (or another database that scales very well for data insertion), (iv) Modern web development frameworks for the user interfaces of our products.
- Software architecture
- Software deployment (containerization, docker, kubernetes, …)
- Modern software development best practices

Some of the technical tasks NetFabric will solve include:

- Collecting vast amounts of data from various sources, where possible using existing tools
- Efficiently pre-processing, storing, and analyzing vast amounts of data
- Synthesizing correct code using large language models or more traditional techniques
- Intuitive yet efficient data manipulation using a custom-built domain-specific language (DSL)
- Modeling and understanding of network protocols
- Testing our product on an internally-built network (either fully virtualized or a mix of virtual and physical devices)

- Suggest and implement new ways to display and visualize complex network behaviors in our platform's frontend
- Utilizing, implementing and fine tuning LLMs, NLPs as well as evolving specialized query languages.

Some of the specific roles and responsibilities include:

- Plan and execute software research and development projects
- Produce, test, and debug our network monitoring platform
- Collaborate with a mentor (if needed) and the rest of the team
- Decide which technologies and/or technology stacks to use
- Build MVP prototypes and deliver production versions of the successful ones
- Optimize existing solutions to improve usability, speed, quality, and other key metrics
- Understand and implement strict security and data protection practices
- Support the technical aspects when developing presentation materials for: investors, customers, and new hires
- Bug triage: prioritize and eliminate bugs in accordance to the MVP product roadmap
- Observe and learn how network operators interact with our tool and suggest improvements
- Coordinate the priorities and deliverables we work on with the rest of the team

Benefits:

- A fast growing startup experience, flat hierarchy, great opportunity for professional growth
- Compensation package with stock options, market salary, and accident insurance
- Shape a platform that will revolutionize the monitoring possibilities for networks throughout the world

The position requires you to communicate well in English.

About us

NetFabric is a startup building a platform for unlocking real-time reasoning & Artificial Intelligence for IT Operations (AIOps) across all aspects of data networks. Our technology pushes the frontiers of network understanding and reasoning across data sources.

We are building up a strong team with great people including serial entrepreneurs, ETH PhD holders, and ETH professors.