



Mid- to Senior-level Software Engineer (m/f/d)

Who are we?

X41 D-SEC GmbH is dedicated to high quality security research, application security services, penetration tests, and red teaming. Together, we help our customers secure their digital environment. As a multinational team with an informal atmosphere, flat hierarchies, and a deep technical focus everyone is empowered to be a key decision-maker. Join us and help define X41.

Who are we looking for?

We are looking for a software engineer that has experience in modern C/C++ development and backend operations. The candidate should be swift in debugging and should understand low-level details of the operating system (e.g., Linux). Role responsibilities include learning, understanding, and improving open-source security tools, planning and development of new features, and suggesting improvements for our internal backend systems. Currently, we are leading a project ([PeT-HMR](#)) where X41 partners with research departments from academia and industry to achieve better detection of vulnerabilities in cloud environments.

What skills do you need to have?

You will review and improve existing open-source tools and optimize our data pipeline and backend services. From a candidate we expect the following skills:

- Experience in development and algorithms (preferred languages C++, Go, Python).
- You can grasp and improve large codebases
- Knowledge of compiler toolsets, CI/CD and GitHub flow
- Good understanding of application security (such as OWASP Top 10 and/or memory corruptions)
- Flexibility and the ability to independently set goals and find solutions in a remote startup environment
- Proactive approach to problem solving in a team
- Proficient in English. We are mixed team communicating only in English, both verbal and written



Nice-to-have skills (one of the following):

- You have experience in maintaining and monitoring backend services in production
- Interest or experience in system-level technologies like eBPF
- Investigating capabilities and future usage potential of open-source tools like osquery or Sysmon spark joy in you
- Experience in training neural networks (convolutional, recurrent, and GANs) or deploying them to production to automate tedious human tasks


What do we offer?




We are a small, multinational, and diverse team that works closely together. This is an engineering position, but we also offer a possibility of growth depending on your skill and affinities. At X41 you will find:

- Bleeding edge research and engineering problems
- Freedom and support to work on research problems in application security
- Learning opportunities. From internal knowledge sharing meetups to attending or presenting your research at security conferences. You will be able to attend courses and learn new things based on your preferences and career goals
- Competitive salary based on your knowledge and experience

Contact

Send an e-mail to info@x41-dsec.de with your CV and other relevant information that may be interesting to us (earlier projects, your blog, GitHub/GitLab account). We will get back to you and, if there is a match, schedule an introductory interview to get to know each other better.

 X41 D-SEC GmbH
Dennewartstr. 25-27
52068 Aachen
Germany

 <https://www.x41-dsec.de>
 info@x41-dsec.de
 +49 (0) 241 9809418-0
 [PGP Public Key](#)