Static Analysis Scientist

Bochum, Ruhr-University Campus, Full-time

SonarSource is looking for a passionate Static Analysis Scientist who loves to explore ways to automate the detection of bugs and vulnerabilities in source code. You will be part of the Research & Development team that drives the innovation of our code analysis products. By exploring state-of-the-art approaches and new ideas, you are preparing the next generation of our cutting-edge code analyzers used by millions of developers around the globe.

On a daily basis, you will

- Have fun in a creative team that shares your passion and interest in static analysis
- Identify, measure, and discuss limitations and drawbacks of our current static analysis implementations
- Stay up-to-date with the latest academic research and industry trends related to automated detection of code issues
- Experiment with existing or new analysis algorithms and prototypes to evaluate their potential of solving real problems and satisfying additional customer needs
- Innovate by inventing new, creative static analysis techniques that will advance our technology and the industry's state-of-the-art
- Develop proof of concept implementations that are feasible in practice and applicable to our products

The skills you will demonstrate

- You received a doctorate or master's degree in computer science or a related field where you studied theoretical aspects of programming languages
- You have hands-on experience with formal methods used for static program analysis (e.g., data flow analysis, taint analysis, symbolic execution, or abstract interpretation)
- You have a solid understanding of the concept behind common bugs or vulnerabilities in applications' code
- You have solid programming skills for prototype implementation, preferably in Java
- You are creative and passionate about automating the detection of code issues
- You can think outside the box and turn abstract, theoretical ideas into practical, feasible solutions for our product users
- You are fluent in English, both written and spoken, and are able to understand and explain complex technical and scientific topics

Join us in this fun adventure and take a unique opportunity to help build the best code analysis products in the world!

https://sonarsource.com/company/careers/

Questions / Casual Chat?
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