Lehrstuhl für Sicherheit in der Informatik
Prof. Dr. Claudia Eckert

Announcement: Student job in cooperation with Fraunhofer AISEC, Garching

CPG Open Source Development

Motivation and Task Description

A code property graph (cpg) is a representation of source code in form of a labeled directed multi-graph. The graph is used for static code analysis. Security vulnerabilities can be found by writing search queries on the graph to match known bad code patterns. The project is open source and can be found on github[1].

The cpg is written in Java/Kotlin and supports C/C++, Java, Python and golang as target languages. Currently, the cpg is lacking C/C++ language features. Consequently, we are looking for developers enhancing cpg's feature set and to push the project forward.

If you enjoy self-driven research and open source development, we are looking forward to your application.

The monthly working time is 40 hours, but can be de-/increased on request.

Requirements

- Programming experience, preferably in Java or Kotin
- Interest in learning about static code analysis

Contact

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[1] https://github.com/Fraunhofer-AISEC/cpg