Chair for IT Security
Prof. Dr. Claudia Eckert

Announcement: Student Assistant (m/f/) at Fraunhofer AISEC*

Extension of C++ Frontend of Code Property Graph

Motivation and Task Description

The Code Property Graph (CPG)[1] is an open source tooling, developed at AISEC, that facilitates data flow analysis on a language independent graph representation of source code. We want to improve the CPG in handling C++ code. First starting points for improvements are handling and resolution of templates and namespaces. Due to the complexity of C++ this task is hard to solve, especially, as the CPG promises to work with incomplete code (not having all dependencies) as well. Therefore, we are looking for a motivated and patient student with strong programming background in C++, who helps us to improve the C++ frontend step-by-step.

Requirements

- Strong Programming skills in Kotlin and C++
- Ability to work self-directed and systematically
- Background knowledge of code representations and static code analysis

Contact

Hannah Schmid
Tel.:   +49 89 322-9986-130
E-mail: hannah.schmid@aisec.fraunhofer.de

Tobias Specht
Tel.:   +49 89 322-9986-187
E-mail: tobias.specht@aisec.fraunhofer.de

Fraunhofer Research Institute for Applied and Integrated Security AISEC
Department Product Protection and Industrial Security
Lichtenbergstraße 11, 85748 Garching near Munich, Germany
https://www.aisec.fraunhofer.de

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