



Lehrstuhl für Sicherheit in der Informatik
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Announcement of a student job in cooperation with Fraunhofer AISEC, Garching

Searchable Encryption NoSQL backend

Motivation and Topic

Searchable encryption is a recent research topic here at the Fraunhofer AISEC. We are developing an open, secure and fully encrypted searchable system utilizing NoSQL data stores: haystack (<https://zentrum-digitalisierung.bayern/wp-content/uploads/Eckert.pdf> / page 7). We are currently looking for students to help with further development of the prototype, including

- development of a generic backend for various pluggable NoSQL data stores (cortexDB, mongoDB, orientDB, neo4j, ...)
- therefore development of a generic module with pluggable NoSQL extensions
- customization and configuration ability

If you enjoy self-driven research and development in this area, we currently have an opening for a research assistant position. As part of Fraunhofer AISEC staff, you will help in development, documentation and testing of the Open Source software. The monthly working time is 40 hours, but can be de-/increased on request.

Requirements

- Programming skills (Java)
- Database skills (NoSQL)
- Interest in applied Cryptography
- Ability to work self-directed and systematically

Contact

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