Master's degree InternShip Presentation

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Presentation structure

- Internship environment
- SchemaFuzz Presentation
- Results
- Enrichment
- Conclusion

The Berner FachHochschule (BFH)



GNU Taler



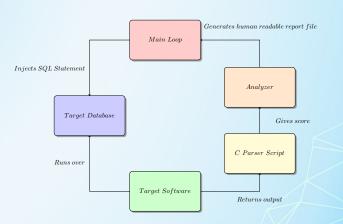
SchemaFuzz

- What is SchemaFuzz ?
- General Structure
- How does it Work ?
- Obstacles and solutions

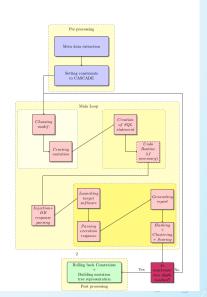
What is SchemaFuzz?

- Database oriented Fuzzing tool
- Secure database exchange

General Structure



How does it work?



Obstacles and solutions

- SchemaSpy's code complexity
- Scheduling
- Structural thinking

Results

SchemaFuzz's output

```
♥ 9: Version Control Terminal > 4: Run % 6: TODO
```

Development environment

```
/Work/GnuNet/schemafuzz/errorReports> cat parsedStackTrace 13
                                                                       master!?
functionNames:
tmpfun2,
tmpfun,
main.
fileNames:
test_c_crash.c,
lineNumbers:
end:
path:
[SG - attachedToMutation : 1| OV :0 | NV :0 ]
SG - attachedToMutation : 2 OV :138 | NV :32767 ]
SG - attachedToMutation : 3 OV :163 NV :4554
SG - attachedToMutation : 4 OV :31 | NV :15988
[SG - attachedToMutation : 5| OV :72410 | NV :82410 ]
SG - attachedToMutation : 6| OV :289 Santo Andr Manor | NV :289 Santo Andr Manog ]
endpath:
/Work/GnuNet/schemafuzz/errorReports>
```

Production environment

```
🕽 🗇 🕕 feideus@user-ThinkPad-X201-Tablet: ~/Work/Gnunet/schemafuzz/errorReports
{13:30}~/Work/Gnunet/schemafuzz/errorReports:master X □ cat parsed_StackTrace_1
{13:30}~/Work/Gnunet/schemafuzz/errorReports:master ✗♡
```

Enrichments

- ► Technical improvement
- Languages
- Work methodology

Conclusion