



Francis Alexander

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Highly Passionate Security Researcher / Engineer with Interest in various domains, actively on Application & Cloud Security, DevSecOps, Distributed Systems, NoSQL Security, Container Security, Infrastructure Security.

Automation Love, authored & co-authored some of the notable open source projects like NoSQL Exploitation framework, Garfield(A pentesting framework for Distributed Systems.), NoPo (A NoSQL Honeypot).These can be found @ <https://github.com/torque59>.

Occasionally rambles regarding security findings and research @ <https://francisalexander.in/blog/>.

As part of publishing my research, spoke @ a bunch of conferences: Troopers 2017, BruCON 2017, PHDays 2017, Insomni'hack, Hack in the Box 2014,Hack in Paris 2014,C0c0n 2014,44CON UK,HITCON 2014,DerbyC0n USA, Defcon Bangalore and Defcon Kerala

Delivered trainings @ some of the prestigious security conferences like Blackhat, OWASP Appsec EU, Hack In the Box, BruCON, NullCON which included students from companies like Apple, Intel, Adobe, Philips, PWC etc.

Work experience

Investnet Yodlee **Feb 2018 – Present**
Lead Application Security Engineer

Investnet Yodlee **June 2017 – Jan 2018**
Senior Application Security Engineer

Investnet Yodlee **June 2016 – June 2017**
Application Security Engineer
Role at Investnet|Yodlee involves:
▪ Product Security Engineering and architecture review for new products.
▪ Architecture review for Security in DevOPS
▪ Web application security assesments, Red-teaming and code reviews.
▪ Automated security analysis integrated within the development workflow and to improve the accuracy and coverage of these tools.
▪ Developer Trainings & Security Response for Bug reports.

Flipay **June 15 – June 2016**
Backend Engineer
▪ Involved in building REST API for the products to communicate to (NodeJS & Python).
▪ Handle & Build API Security and Structure.

Investnet Yodlee **June 14 – June 2016**
Intern Application Security Engineer

Security Portfolio

Research Publications:

- How we hacked Distributed Configuration Management Systems (2017).
- NoPo - The NoSQL Honeypot Framework (2015).
- Exploiting NoSQL Databases Like Never Before (2014).
- Pentesting NoSQL Databases Using NoSQL Exploitation Framework(2014).
- Bypassing your SQL Injection Filters (2013).

Conference Speaker/Trainer:

- Troopers (2017)
- BruCON (2017)
- Insomn'hack (2017)
- PHDays (2017)
- Hack In The Box (2014) ,
- Hack In Paris (2014),
- 44Con (2014)
- HITCON 2014,
- Nullcon Goa (AMMO) (2014),
- c0c0n (2014,2015)

Authored Open Source Security Tools:

- NoSQL Exploitation Framework (torque59/NosqlExploitation-Framework/)
- Garfield Security Framework (torque59/Garfield)
- NoPo - NoSQL Honeypot Framework (torque59/nosqlpot)
- JMXSecurity (torque59/jmxsecurity)
- Python Security Bootcamp (torque59/python-security-bootcamp)
- FileDrupe Online Multi AV Scanner

Vulnerabilities Found:

- Polycom IP Phone Arbitrary Memory Read
- OrientDB Remote Code Execution

VAPT for Clients:

- Over 5+ Assessments for 3rd party clients
- Client assessments include infrastructure security assessment, siem management with ELK, red-teaming, internal infra and hardware pentesting and threat assessment.

Education

B.Tech

May 2012 – May 2016

Amal Jyothi College of Engineering

B.Tech in Computer Science and Engineering.

Interests

- Security research and development.
- Recent interests moved to reversing and fuzzing.
- Music and movies
- Travel buff.

References

References available upon request.
