Bangalore
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H&J

# Yash Kumar

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## Summary

Security Researcher involved in cyber security from more than 3 years (~2 years in corporate). Focus towards Low level security work, including Software Security, Reverse engineering, Malware analysis, Windows Internals and Application and Network Penetration Testing.

## Relevant Skills

### Reverse Engineering and Malware Analysis

- Disassembling and analysing binaries in Windows/Linux
- Knowledge of windows internals and PE file formats
- Dynamic and Static analysis of malwares
- Software Exploitation research

### Penetration Testing

- Network Penetration Testing
- Web, APIs, Thick Client Application security assessment

## Experience

### Société Générale, Bangalore— *Security Analyst*

June 2019 - PRESENT

Penetration Testing of Web Applications, Infrastructure, API and Thick Client Applications.

### ArcelorMittal, Kazakhstan — *Network Engineering Intern*

June 2018 - July 2018

Network Infrastructure Implementation and Penetration Testing.

## Education

### LNM IIT, Jaipur — CCE

July 2015 - Aug 2019

Communication and Computing Engineering,

Bachelors in Technology.

## Technical competence

- Reverse Engineering
- Intel x86/__64 asm
- Security Assessment
- Windows/Linux Exploitation
- Programming(Python,C)
- Computer Networking
- IoT/IoT Security
- Embedded System
- Socket Programming
- Binary Debugging
- Cryptography
- Malware Analysis(SA,DA)
- Windows API programming(c++)

## Tools & Frameworks

**Network Penetration Testing** – Wireshark, Metasploit, Nmap, Nessus

**Application Security Assessment** – Burp Suite, ZAP, Nikto

**Reverse Engineering** – IDA, Windbg, x64 dbg, ollydbg, GDB

**Dynamic Analysis** – Sysinternal Suite, PEstudio, CFF exp

## Projects & Achievements

- **Beta Tester(OpenSecurityTraining) –** Working with Xeno Kovah for enhancing courses on x86 assembly and exploitation
- **IOT Security** – API implementation of Elgamal Encryption using Elliptic Curve Cryptography in Python.
- **Internet Of Things** – Alarming System.
- **Windows API Programming** – A tool for analysing PE headers.
- **Cryptography** – RSA Implementation in Python.
- **All India Rank 5** – Hackathon conducted by Societe Generale(bangalore)

## Hobbies

- Cycling
- Vlogging/Blogging
- Travelling
- Reading – History/Geography
- Wrestling and Brazilian Jiu-Jitsu