SAKET UPADHYAY

CYBERSECURITY STUDENT

ABOUT ME

Research and result oriented cybersecurity student.
I like to experiment with old and new technologies and learn more about how it works by bending and breaking it and try to fix if it actually breaks. I like to find simple solutions to challenging problems.
When not hacking I like to learn new languages or meet new people

EDUCATION

Vellore Institute of Technology
2018 - 2022 | CSE with specialization in Cybersecurity and Digital Forensics (B.Tech)

Kendriya Vidyalaya
2006 - 2018 | High School (10+2)

WORK EXPERIENCE

JUN-AUG 2020 — **RENAULT NISSAN TECHNICAL BUSINESS CENTER INDIA (RNTBCI)**
RESEARCH INTERN

- Advance Cybersecurity Concepts in Connected Autonomous Vehicles

JUL-AUG 2019 — **AZURE SKYNET SOLUTIONS PVT. LTD**
PENETRATION TESTER (INTERN)

- TEST 5 ISOLATED SYSTEMS FOR VULNERABILITIES
- CREATE PoC
- CREATE VULNERABILITY REPORT
- PATCH FOUND VULNERABILITIES

MISC. EXPERIENCE

JUL 2020 — **PolyX Malware Research Community Member**
Active Member since July 2020. | PolySwarm

JUL 2020 — **STUDENT ORGANIZING COMMITTEE**
International Faculty Development Program | VIT

JUN 2020 — **ORGANIZING COMMITTEE**
CyVIT'20 | VIT

DEC 2019 — **STUDENT ORGANIZING COMMITTEE**
19th International Conference on Hybrid Intelligent Systems | MIR LABS, VIT

DEC 2019 — **STUDENT ORGANIZING COMMITTEE**
15th International Conference on Information Assurance and Security | MIR LABS, VIT

APR 2019 — **TECHNICAL LEAD**
CyVIT'19 | VIT

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TECHNICAL SKILLS

- Malware Analysis
- Reverse Engineering
- Vulnerability Assessment & Reporting
- Penetration Testing
- Technical Writing
- Secure Code Analysis

LANGUAGES & TECHNOLOGIES

- ASSEMBLY (x32, x64)
- C
- C++
- PYTHON
- JAVA
- ANDROID (Java based)
- RUBY
- METASPLOIT FRAMEWORK
- BRUP SUITE
- MALTEGO
- IDA
- x32/x64 Debugger
- GHIDRA
- GNU Debugger (GDB)

CERTIFICATIONS

Autopsy 8-Hour Online Training
APR 2020 | Basis Technology (ID - 16976888)

Fundamentals of Cyber Risk Management Public Version
APR 2020 | Cybersecurity and Infrastructure Security Agency (CISA)

Identifying Security Vulnerabilities in C/C++Programming
APR 2020 | University of California, Davis (Coursera)

Software Security
FEB 2020 | University of Maryland (Coursera)

Malware Threats
MAY 2019 | Cybrary (C-fbe069fd0-16d03e67a)

Advanced Penetration Testing
JAN 2018 | Cybrary (C-fbe069fd0-117bb4)

PROJECTS

NS3-Cybersecurity Simulations
Aug 2020 – Ongoing   [see on GitHub]

SAMPARK : Website Connection Security Scanner
May 2020 – Jun 2020   [see on GitHub]

Android Device Threat Report Generation using PACE framework and ADB
Jan 2020 - Mar 2020 (Research Project)

PACE : Platform for Android application Classification and Evaluation
Sep 2019 – Dec 2019 (Research Project)

Live Movement Tracing in Android using Polygraph lines.
Dec 2018 – Mar 2019   [see on GitHub]

CONTACT

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PUBLICATIONS

PACER: Platform for Android Malware Classification, Performance Evaluation and Threat Reporting
APR 2020 | Future Internet, MDPI
https://doi.org/10.3390/fi12040066

PACE: Platform for Android Malware Classification and Performance Evaluation
DEC 2019 | IEEE International Conference on Big Data
https://doi.org/10.1109/BigData47090.2019.9006557

HONORS AND AWARDS

Best Paper Award, IEEE
2019 | International Conference on Big Data 2019

1st Rank in DEFCON28 Secure Code Tournament
2020 | DEF CON 28 [SafeMode], SCW

1st Rank in DevSecCon24 Coding Tournament
2020 | Development Security Conference 24 (Singapore, Virtual Event)

Winner HackCoVIT'20 National Hack-a-thon
2020 | Vellore Institute of Technology, Bhopal

1st Rank in DerpCon 2020 SCW Tournament
2020 | Denver Enterprise Risk Professionals Conference 2020

TALKS

Malware Hunting with Machine Learning
2020 | Penn State World Campus Tech Club, Penn State, Pennsylvania

PACE : Paper Presentation, IEEE
2019 | International Conference on Big Data 2019, Los Angeles

Malware Detection and Classification
2019 | 15th International Conference on Information Security and Assurance, VIT

LANGUAGES

Hindi
English
Russian

CONTACT

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