

DIDDI KRANTHIKIRAN

MALWARE ANALYST · MACHINE LEARNING ENTHUSIAST · MOBILE APPLICATION DEVELOPER

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"Intelligence is the ability to adapt to change"

Summary

A prolific and passionate Security Analyst having Hands on experience in Malware Analysis and Mobile Application Security. Overall 4 years of experience in Information Technology. Currently Working as Senior Engineer in Mindtree Ltd. I have been successful in delivering Multiple projects over the period. I Worked as part of Malware Analysis Team and Mobile Application Security.

Areas Of Interest

- Malware and Threat Analysis
- Reverse Engineering
- Mobile Security Testing

Work Experience

Mindtree Limited

Hyderabad, IN

SENIOR ENGINEER

Nov. 2020 - present

- Helping with the management of customer escalations as well as providing labelling and grading support for determining the correct rating for more complex situations.
- Analyzing and Grading the Phishing and Malicious URLs and Malware Files.
- Supporting the Data Science, Response and Threat Intelligence teams in determining criteria for making accurate decisions.
- Improving detection capabilities and clearly communicating customers.
- Perform duties dedicated to documenting trends and incidents and validating issues with tools and supporting services.

Aspirify Enterprises Pvt Ltd

Delhi, IN

SECURITY ANALYST

June. 2019 - Nov 2020

- Automating security tests with static and dynamic analysis and Developing Runtime-Application-Self-Protections mechanisms
- Conducting Malware analysis and Reverse Engineering on suspicious samples, reporting and documentation of malicious programs and files
- Conceptualize, develop and test native iOS applications, including UI, core functionality and third party SDKs
- Analyzing network threats and mitigates vulnerabilities.
- iOS app penetration testing. Finding security issues in iOS apps.
- Worked with Frida to bypass Android and iOS protections as jailbreak and debug detection, certificate pinning, secure storage and artefacts recovery

ZAPS Marketing Pvt Ltd

Hyderabad, IN

IOS APPLICATION DEVELOPER

Jan. 2017 - May. 2019

- I have involved in the project from Design to Deployment.
- Requirement analysis and creating workflow and prototype
- Analyse the backend services and make sure they meet our idea and flow.
- Sharing work among developers
- Submit app to app store
- Push notification using Firebase.

Projects

Malware Analysis

- Performed Static and Dynamic analysis of Malware to identify its internal working.
- Performed hunting for malicious activity across the network and digital assets and gather the artifacts needed to build a timeline of activities.
- Conducts analysis using a variety of tools and data sets to identify indicators of malicious activity on the network.
- Documenting and reporting the identified artifacts, techniques and IOCs to develop internal knowledge base.

Mobile Application Analysis

- Worked on python scripts for automation of analysing applications, private API Vetting process using frida tool for hooking API calls.
- Reversing the APK to extract the source code from it and extract the permissions from manifest and Identifying all the given permissions in the app from plist as well.
- Extracting all the resources and assets of the app, finding all the URLs used in the apk & ipa files and performing domain check and resource analysis.
- Setting up proxy for intercepting app outgoing and incoming traffic using burpsuite, Intercepting HTTPS urls.

Skills

Reverse Engineering Tools Frida . IDA Pro . Windbg . x64dbg . Sysinternals . Burp Suite . Wireshark . FakeNet . Fiddler.

Mobile Development iOS

Technologies Machine Learning , EDA Skills , Malware analysis

Programming Python , x86/x86-x64ASM , Swift , Objective-C

Certifications & Activities

CERTIFICATES ISSUED

- | | | |
|------|--|------------------------------|
| 2019 | iOS Application Penetration Testing Ethical Hacking Domain , Completion | <i>InfoSec</i> |
| 2020 | Scientific Computing and Python for Data Science: Applied Data Science Module Unit I , Honors | <i>WorldQuant University</i> |
| 2020 | Reverse Engineering and Exploit Development , Completion | <i>Infinite Skills</i> |

Education

University College of Engineering and Technology, Kakatiya University

Warangal, TG

B.TECH. IN MECHANICAL ENGINEERING

Oct 2012 - 2016

- Graduated with Distinction CGPA 8.5/10.0
- Case study on Graphene Material, Done with Presentation and Won III Prize in Nation Level Techno Summit'15.
- Worked on Research project as Academic Project on Analysing pros and cons of both Fabrication techniques using Powder Metallurgy and Dye Casting.

Extracurricular Activity

Doodling , Painting and Info Graphics Design

Warangal

RECEIVED CHITRA LEKHAN AWARD 2009

Nov. 2009

- National Coloring Contest on National Integrity & Peace represented our school and received chitra lekhan award.
- Participated in many inter-school competitions and received appreciations in doodling and Painting

National Cadet Corps (NCC-B & NCC-C)

Kakatiya University, Warangal

CADET GRADE: B

Jan 2013 - Present

- Trained in the services of parades and military training in small Arms from 1(A)CTR Bn.
- Participated in Annual Camps and University Republic Day Parade on Jan 26th.